

CS589
Software Testing and Analysis
Project Report

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A. Source Code:

Testing Oriented Methods are added in the provided source code to obtain the state and the private variables data.

```
/* This method prints the current value of all private variables */
public void Show_variables(){
    System.out.println(
        ("x = " + x + ", w = " + w +
        ", k1 = " + k1 + ", k = " + k +
        ", t = " + t + ", s = " + s));
}

/* This method prints the current state */
public void currentState(){
    switch(this.x){
        case 1:
            System.out.println("idle");
            break;
        case 2:
            System.out.println("coins inserted");
            break;
        case 3:
            System.out.println("sugar");
            break;
        case 4:
            System.out.println("no small cups");
            break;
        case 5:
            System.out.println("no large_cups");
            break;
        case 6:
            System.out.println("Process Ended, cup disposed, Terminates the operation of Vending Machine");
            break;
        default:
            break;
    }
}
```

B. TestDriver.java

```
import java.util.Scanner;

class TestDriver {
    public static void main(String[] args) {
        /* Displaying the required contents */
        System.out.println("\nCS 589 FALL 2023 PROJECT");
        System.out.println("Vending Machine Menu");

        /* Method Menu is called to display the Menu options in Vending Machine */
        Menu();
        System.out.println("Kindly select one of the options from the Menu");
        /* Object creation of VendingMachine class,
        this will set the initial values which is provided by constructor of the class */
        VendingMachine vm = new VendingMachine();

        /* creating scanner object */
        Scanner sc = new Scanner(System.in);
        String UserInput = sc.nextLine();

        /* variable to store return value of each method */
        int ValueReturned=1;

        /* while loop with the condition to exit when quit is opted from the menu */
        while(!UserInput.equals('q')){
```

```
/* switch case condition to process further on the basics of menu opted */
switch (UserInput) {
    case "0":
        System.out.println("Coin() Method");
        ValueReturned = vm.Coin();
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;

    case "1":
        System.out.println("SmallCup() Method");
        ValueReturned = vm.SmallCup();
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;

    case "2":
        System.out.println("LargeCup() Method");
        ValueReturned = vm.LargeCup();
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;

    case "3":
        System.out.println("Sugar() Method");
        ValueReturned = vm.Sugar();
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;

    case "4":
        System.out.println("Coffee() Method");
        ValueReturned = vm.Coffee();
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;

    case "5":
        System.out.println("InsertLargeCups(int n) Method");
        System.out.println("Enter the value of parameter n, i.e Number of Large cups required");
        int l= sc.nextInt();
        ValueReturned = vm.InsertLargeCups(l);
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;

    case "6":
        System.out.println("InsertSmallCups(int n) Method");
        System.out.println("Enter the value of parameter n, i.e Number of small cups required");
        int s= sc.nextInt();
        ValueReturned = vm.InsertSmallCups(s);
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;

    case "7":
        System.out.println("SetPrice(int p) Method");
        System.out.println("Enter the value of parameter p, i.e Price value");
        int p= sc.nextInt();
        ValueReturned = vm.SetPrice(p);
        System.out.println("The value returned by the method is: " + ValueReturned);
        System.out.println("\nEnter the next option");
        Menu();
        break;
}
```

```
case "8":  
    System.out.println("Cancel() Method");  
    ValueReturned = vm.Cancel();  
    System.out.println("The value returned by the method is: " + ValueReturned);  
    System.out.println("\nEnter the next option");  
    Menu();  
    break;  
  
case "9":  
    System.out.println("Dispose() Method");  
    ValueReturned = vm.Dispose();  
    if (ValueReturned==1) {  
        System.out.println("The value returned by the method is: " + ValueReturned);  
        System.exit(0);  
    }  
    System.out.println("The value returned by the method is: " + ValueReturned);  
    if (ValueReturned==0){  
        System.out.println("\nEnter the next option");  
        Menu();  
    }  
    break;  
  
case "a":  
    System.out.println("Show_variables() Method");  
    vm.Show_variables();  
    System.out.println("\nEnter the next option");  
    Menu();  
    break;  
case "b":  
    System.out.println("State : ");  
    vm.currentState();  
    System.out.println("\nEnter the next option");  
    Menu();  
    break;  
case "q":  
    System.out.println("Exited successfully");  
    System.exit(0);  
    break;  
  
default:  
    System.out.println("\nEnter the next option");  
    break;  
}  
/* Taking the user input */  
UserInput = sc.nextLine();  
}  
  
}  
  
/* Menu method to print the vending machine menu along with testing related methods*/  
public static void Menu(){  
    System.out.println("0. Coins()");  
    System.out.println("1. SmallCup()");  
    System.out.println("2. LargeCup()");  
    System.out.println("3. Sugar()");  
    System.out.println("4. Coffee()");  
    System.out.println("5. InsertLargeCups(int n)");  
    System.out.println("6. InsertSmallCups(int n)");  
    System.out.println("7. SetPrice(int p)");  
    System.out.println("8. Cancel()");  
    System.out.println("9. Dispose()");  
    System.out.println("\nTesting-related methods");  
    System.out.println("a. Show_variables");  
    System.out.println("b. Current_State");  
    System.out.println("q. Quit Vending Machine class driver\n");  
}  
}
```

C. Steps to run the code.

Approach 1:

- In Eclipse, place the java files within the default package. (Or Within IntelliJ place it within new project)
- Run the code.

Approach 2:

- Place the .jar file and run it in terminal using command ‘java -jar Console.jar’

Screenshots for both the approaches are provided in the README.pdf file.

1. Model-based testing of the VendingMachine class

Transition-Pair testing: All Transition pairs must be traversed at least once.

State: idle		
Incoming	T1, T2, T3, T4, T6, T8, T9, T10, T11, T12, T13, T14, T15	
Outgoing	T2, T3, T4, T5, T6, T7	
Transition Pairs	Test cases	
T1	T2	Test #2
T1	T3	Test #3
T1	T4	Test #1
T1	T5	Test #6
T1	T6	Not Executable
T1	T7	Not Executable
T2	T2	Test #7
T2	T3	Test #5
T2	T4	Test #2
T2	T5	Test #8
T2	T6	Test #7
T2	T7	Test #1
T3	T2	Test #9
T3	T3	Test #7
T3	T4	Test #3
T3	T5	Test #10
T3	T6	Test #8
T3	T7	Test #5

T4	T2	Test #1
T4	T3	Test #7
T4	T4	Test #8
T4	T5	Test #7
T4	T6	Test #11
T4	T7	Test #2
T6	T2	Test #11
T6	T3	Test #12
T6	T4	Test #7
T6	T5	Test #11
T6	T6	Test #12
T6	T7	Test #11
T8	T2	Test #12
T8	T3	Test #11
T8	T4	Test #21
T8	T5	Test #14
T8	T6	Test #18
T8	T7	Test #9
T9	T2	Test #8
T9	T3	Test #10
T9	T4	Test #11
T9	T5	Test #4
T9	T6	Test #19
T9	T7	Test #4
T10	T2	Test #19
T10	T3	Test #13
T10	T4	Test #7
T10	T5	Test #5
T10	T6	Test #19
T10	T7	Test #8
T11	T2	Test #14
T11	T3	Test #14
T11	T4	Test #16
T11	T5	Test #22
T11	T6	Test #21
T11	T7	Test #17
T12	T2	Test #15
T12	T3	Test #20
T12	T4	Test #23
T12	T5	Test #1
T12	T6	Test #21
T12	T7	Test #23
T13	T2	Test #22
T13	T3	Test #16
T13	T4	Test #22
T13	T5	Test #2
T13	T6	Test #21
T13	T7	Test #12
T14	T2	Test #15
T14	T3	Test #17
T14	T4	Test #12
T14	T5	Test #9
T14	T6	Test #18
T14	T7	Test #17
T15	T2	Test #15
T15	T3	Test #23
T15	T4	Test #20
T15	T5	Test #3
T15	T6	Test #22
T15	T7	Test #9

State: coins inserted	
Incoming	T7, T19, T20,T21,T23
Outgoing	T10, T11, T12, T19, T20, T21, T22, T24, T25

Transition Pairs		Test cases
T7	T10	Test #8
T7	T11	Not Executable
T7	T12	Not Executable
T7	T19	Test #2
T7	T20	Test #1
T7	T21	Test #3
T7	T22	Test #4
T7	T24	Not Executable
T7	T25	Not Executable

T19	T10	Test #13
T19	T11	Not Executable
T19	T12	Test #1
T19	T19	Test #7
T19	T20	Test #9
T19	T21	Test #7
T19	T22	Test #2
T19	T24	Test #14
T19	T25	Not Executable
T20	T10	Test #13
T20	T11	Test #14
T20	T12	Test #15
T20	T19	Test #1
T20	T20	Test #8
T20	T21	Test #8
T20	T22	Test #9
T20	T24	Test #9
T20	T25	Test #16

T21	T10	Test #7
T21	T11	Test #14
T21	T12	Not Executable
T21	T19	Test #5
T21	T20	Test #9
T21	T21	Test #7
T21	T22	Test #3
T21	T24	Not Executable
T21	T25	Test #4
T23	T10	Test #5
T23	T11	Test #17
T23	T12	Test #20
T23	T19	Test #15
T23	T20	Test #14
T23	T21	Test #19
T23	T22	Test #18
T23	T24	Test #11
T23	T25	Test #10

State: sugar	
Incoming	T16, T17, T18, T22
Outgoing	T13, T14, T15, T16, T17, T18, T23, T26, T27

Transition Pairs		Test cases
T16	T13	Test #2
T16	T14	Test #15
T16	T15	Test #15
T16	T16	Test #14
T16	T17	Test #14
T16	T18	Test #16
T16	T23	Test #10
T16	T26	Test #17
T16	T27	Test #4
T17	T13	Not Executable
T17	T14	Test #12
T17	T15	Test #9
T17	T16	Test #4
T17	T17	Test #12
T17	T18	Test #18
T17	T23	Test #14
T17	T26	Not Executable
T17	T27	Test #8
T18	T13	Test #16
T18	T14	Test #17
T18	T15	Not Executable
T18	T16	Test #17
T18	T17	Test #18
T18	T18	Test #11
T18	T23	Test #5
T18	T26	Test #18
T18	T27	Not Executable
T22	T13	Test #12
T22	T14	Test #9
T22	T15	Test #3
T22	T16	Test #2
T22	T17	Test #4
T22	T18	Test #5
T22	T23	Test #15
T22	T26	Test #12
T22	T27	Test #11

State: no small cups	
Incoming	T25, T27, T28
Outgoing	T9, T28

Transition Pairs		Test cases
T25	T9	Test #4
T25	T28	Test #10
T27	T9	Test #4
T27	T28	Test #11
T28	T9	Test #10
T28	T28	Test #10

State: no large_cups	
Incoming	T24, T26, T29
Outgoing	T8, T29
<hr/>	
Transition Pairs	Test cases
T24	T8 Test #11
T24	T29 Test #9
T26	T8 Test #12
T26	T29 Test #13
T29	T8 Test #9
T29	T29 Test #9

Test cases:

Test #1: SetPrice(20), InsertLargeCups(3), Coin(), Coin(), LargeCup(), Coffee(), Dispose()

Sequence of Transition: T1, T4, T2, T7, T20, T19, T12, T5

Transition Pairs covered: (T1, T4), (T4, T2), (T2, T7), (T7, T20), (T20, T19), (T19, T12), (T12, T5)

Test #2: InsertLargeCups(3), SetPrice(20), Coin(), LargeCup(), Sugar(), Coin(), Coffee(), Dispose()

Sequence of Transition: T1, T2, T4, T7, T19, T22, T16, T13, T5

Transition Pairs covered: (T1, T2), (T2, T4), (T4, T7), (T7, T19), (T19, T22), (T22, T16), (T16, T13), (T13, T5)

Test #3: InsertSmallCups(3), SetPrice(20), Coin(), SmallCup(), Sugar(), Coffee(), Dispose()

Sequence of Transition: T1, T3, T4, T7, T21, T22, T15, T5

Transition Pairs covered: (T1, T3), (T3, T4), (T4, T7), (T7, T21), (T21, T22), (T22, T15), (T15, T5)

Test #4: InsertSmallCups(1), SetPrice(20), Coin(), Sugar(), SmallCup(), Coin(), Coffee(), InsertSmallCups(1), Coin(), SmallCup(), Coffee(), InsertSmallCups(2), Dispose()

Sequence of Transition: T1, T3, T4, T7, T22, T17, T16, T27, T9, T7, T21, T25, T9, T5

Transition Pairs covered: (T1, T3), (T3, T4), (T4, T7), (T7, T22), (T22, T17), (T17, T16), (T16, T27), (T27, T9), (T9, T7), (T7, T21), (T21, T25), (T25, T9), (T9, T5)

Test #5: SetPrice(20), InsertLargeCups(2), InsertSmallCups(2), Coin(), SmallCup(), LargeCup(), Sugar(), LargeCup(), Sugar(), Cancel(), Dispose()

Sequence of Transition: T1, T4, T2, T3, T7, T21, T19, T22, T18, T23, T10, T5

Transition Pairs covered: (T1, T4), (T4, T2), (T2, T3), (T3, T7), (T7, T21), (T21, T19), (T19, T22), (T22, T18), (T18, T23), (T23, T10), (T10, T5)

Test #6: Dispose()

Sequence of Transition: T1, T5

Transition Pairs covered: (T1, T5)

Test #7: SetPrice(100), InsertLargeCups(1), InsertLargeCups(1), Coin(), SetPrice(10), InsertSmallCups(1), InsertSmallCups(1), Coin(), LargeCup(), LargeCup(), SmallCup(), SmallCup(), Cancel(), SetPrice(12), Dispose()

Sequence of Transition: T1, T4, T2, T2, T6, T4, T3, T3, T7, T19, T19, T21, T21, T10, T4, T5

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Transition Pairs covered: (T1, T4), (T4, T2), (T2, T2), (T2, T6), (T6, T4), (T4, T3), (T3, T3), (T3, T7), (T7, T19), (T19, T19), (T19, T21), (T21, T21), (T21, T10), (T10, T4), (T4, T5)

Test #8: SetPrice(100), InsertSmallCups(1), Coin(), SetPrice(12), SetPrice(10), Coin(), Cancel(), Coin(), Coin(), Coin(), SmallCup(), Sugar(), SmallCup(), Coffee(), InsertSmallCups(1), InsertLargeCups(1), Dispose()

Sequence of Transition: T1, T4, T3, T6, T4, T4, T7, T10, T7, T20, T20, T21, T22, T17, T27, T9, T2, T5

Transition Pairs covered: (T1, T4), (T4, T3), (T3, T6), (T6, T4), (T4, T4), (T4, T7), (T7, T10), (T10, T7), (T7, T20), (T20, T20), (T20, T21), (T21, T22), (T22, T17), (T17, T27), (T27, T9), (T9, T2), (T2, T5)

Test #9: SetPrice(10), InsertSmallCups(2), InsertLargeCups(1), Coin(), Sugar(), SmallCup(), Coffee(), Coin(), LargeCup(), Coin(), Coffee(), Coin(), Coin(), InsertLargeCups(1), Coin(), SmallCup(), Coin(), Sugar(), Cancel(), Dispose()

Sequence of Transition: T1, T4, T3, T2, T7, T22, T17, T15, T7, T19, T20, T24, T29, T29, T8, T7, T21, T20, T22, T14, T5

Transition Pairs covered: (T1, T4), (T4, T3), (T3, T2), (T2, T7), (T7, T22), (T22, T17), (T17, T15), (T15, T7), (T7, T19), (T19, T20), (T20, T24), (T24, T29), (T29, T29), (T29, T8), (T8, T7), (T7, T21), (T21, T20), (T20, T22), (T22, T14), (T14, T5)

Test #10: InsertSmallCups(1), SetPrice(2), Coin(), SmallCup(), Sugar(), Coin(), Sugar(), Coffee(), Coin(), Coin(), InsertSmallCups(1), InsertSmallCups(1), Dispose()

Sequence of Transition: T1, T3, T4, T7, T21, T22, T16, T23, T25, T28, T28, T9, T3, T5

Transition Pairs covered: (T1, T3), (T3, T4), (T4, T7), (T7, T21), (T21, T22), (T22, T16), (T16, T23), (T23, T25), (T25, T28), (T28, T28), (T28, T9), (T9, T3), (T3, T5)

Test #11: SetPrice(26), Coin(), InsertLargeCups(1), Coin(), Sugar(), LargeCup(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(1), InsertSmallCups(1), Coin(), Coin(), SmallCup(), Sugar(), Coffee(), Coin(), InsertSmallCups(1), SetPrice(100), Coin(), Dispose()

Sequence of Transition: T1, T4, T6, T2, T7, T22, T18, T18, T23, T24, T8, T3, T6, T7, T21, T22, T27, T28, T9, T4, T6, T5

Transition Pairs covered: (T1, T4), (T4, T6), (T6, T2), (T2, T7), (T7, T22), (T22, T18), (T18, T18), (T18, T23), (T23, T24), (T24, T8), (T8, T3), (T3, T6), (T6, T7), (T7, T21), (T21, T22), (T22, T27), (T27, T28), (T28, T9), (T9, T4), (T4, T6), (T6, T5)

Test #12: SetPrice(51), Coin(), Coin(), InsertSmallCups(1), InsertLargeCups(1), Coin(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(1), InsertLargeCups(1), SetPrice(2), Coin(), LargeCup(), Sugar(), Coffee(), Coin(), Sugar(), SmallCup(), SmallCup(), Cancel(), SetPrice(10), Dispose()

Sequence of Transition: T1, T4, T6, T6, T3, T2, T7, T19, T22, T26, T8, T2, T4, T7, T19, T22, T13, T7, T22, T17, T17, T14, T4, T5

Transition Pairs covered: (T1, T4), (T4, T6), (T6, T6), (T6, T3), (T3, T2), (T2, T7), (T7, T19), (T19, T22), (T22, T26), (T26, T8), (T8, T2), (T2, T4), (T4, T7), (T7, T19), (T19, T22), (T22, T13), (T13, T7), (T7, T22), (T22, T17), (T17, T17), (T17, T14), (T14, T4), (T4, T5)

Test #13: SetPrice(25), InsertLargeCups(1), Coin(), LargeCup(), Cancel(), Coin(), LargeCup(), Sugar(), Coffee(), Coin(), InsertLargeCups(1), Coin(), Coin(), Cancel(), InsertSmallCups(1), Dispose()

Sequence of Transition: T1, T4, T2, T7, T19, T10, T7, T19, T22, T26, T29, T8, T7, T20, T10, T3, T5

Transition Pairs covered: (T1, T4), (T4, T2), (T2, T7), (T7, T19), (T19, T10), (T10, T7), (T7, T19), (T19, T22), (T22, T26), (T26, T29), (T29, T8), (T8, T7), (T7, T20), (T20, T10), (T10, T3), (T3, T5)

Test #14: InsertSmallCups(2), SetPrice(10), Coin(), Sugar(), Coin(), Coin(), SmallCup(), Sugar(), Coin(), Coffee(), InsertSmallCups(1), Coin(), LargeCup(), SmallCup(), Coffee(), InsertLargeCups(1), Coin(), LargeCup(), Coffee(), InsertLargeCups(1), Dispose()

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Sequence of Transition: T1, T3, T4, T7, T22, T16, T16, T17, T23, T20, T11, T3, T7, T19, T21, T11, T2, T7, T19, T24, T8, T5

Transition Pairs covered: (T1, T3), (T3, T4), (T4, T7), (T7, T22), (T22, T16), (T16, T16), (T16, T17), (T17,T23), (T23, T20), (T20, T11), (T11, T3), (T3, T7), (T7, T19), (T19, T21), (T21, T11), (T11, T2), (T2, T7), (T7, T19), (T19, T24), (T24, T8), (T8, T5)

Test #15: InsertSmallCups(2), SetPrice(2), Coin(), SmallCup(), Sugar(), Coin(), Coin(), Coffee(), InsertLargeCups(1), Coin(), Sugar(), Coin(), Cancel(), InsertLargeCups(1), Coin(), Sugar(), Sugar(), LargeCup(), Coin(), Coffee(), InsertLargeCups(1), Dispose()

Sequence of Transition: T1, T3, T4, T7, T21, T22, T16, T16, T15, T2, T7, T22, T16, T14, T2, T7, T22, T23, T19, T20, T12, T2, T5

Transition Pairs covered: (T1, T3), (T3, T4), (T4, T7), (T7, T21), (T21, T22), (T22, T16), (T16, T16), (T16,T15), (T15, T2), (T2, T7), (T7, T22), (T22, T16), (T16, T14), (T14, T2), (T2, T7), (T7, T22), (T22, T23), (T23, T19), (T19, T20), (T20, T12), (T12, T2), (T2, T5)

Test #16: InsertSmallCups(1), SetPrice(10), Coin(), SmallCup(), Coin(), Coffee(), InsertSmallCups(1), InsertLargeCups(2), Coin(), Sugar(), Coin(), LargeCup(), Coffee(), InsertSmallCups(1), Coin(), SmallCup(), Coin(), Coffee(), SetPrice(20), Dispose()

Sequence of Transition: T1, T3, T4, T7, T21, T20, T25, T9, T2, T7, T22, T16, T18, T13, T3, T7, T21, T20, T11, T4, T5

Transition Pairs covered: (T1, T3), (T3, T4), (T4, T7), (T7, T21), (T21, T20), (T20, T25), (T25, T9), (T9, T2), (T2, T7), (T7, T22), (T22, T16), (T16, T18), (T18, T13), (T13, T3), (T3, T7), (T7, T21), (T21, T20), (T20,T11), (T11, T4), (T4,T5)

Test #17: InsertLargeCups(1), InsertSmallCups(2), SetPrice(10), Coin(), Sugar(), SmallCup(), Sugar(), Coffee(), Coin(), Sugar(), LargeCup(), Cancel(), Coin(), Sugar(), LargeCup(), Coin(), Coffee(), InsertLargeCups(1), Coin(), Sugar(), Cancel(), InsertSmallCups(1), Dispose()

Sequence of Transition: T1, T2, T3, T4, T7, T22, T17, T23, T11, T7, T22, T18, T14, T7, T22, T18, T16, T26, T8, T7, T22, T14, T3, T5

Transition Pairs covered: (T1, T2), (T2, T3), (T3, T4), (T4, T7), (T7, T22), (T22, T17), (T17, T23), (T23, T11), (T11, T7), (T7, T22), (T22, T18), (T18, T14), (T14, T7), (T7, T22), (T22, T18), (T18, T16), (T16, T26), (T26,T8), (T8, T7), (T7, T22), (T22, T14), (T14, T3), (T3, T5)

Test #18: InsertLargeCups(1), SetPrice(50), Coin(), Coin(), Sugar(), SmallCup(), LargeCup(), Coffee(), InsertLargeCups(1), Coin(), Coin(), Sugar(), Sugar(), Sugar(), LargeCup(), SmallCup(), Cancel(), Coin(), Dispose()

Sequence of Transition: T1, T2, T4, T6, T7, T22, T17, T18, T26, T8, T6, T7, T22, T23, T22, T18, T17, T14, T6, T5

Transition Pairs covered: (T1, T2), (T2, T4), (T4, T6), (T6, T7), (T7, T22), (T22, T17), (T17, T18), (T18, T26), (T26, T8), (T8, T6), (T6, T7), (T7, T22), (T22, T23), (T22, T18), (T18, T17), (T17, T14), (T14, T6), (T6, T5)

Test #19: InsertSmallCups(1), SetPrice(50), Coin(), Coin(), Sugar(), Sugar(), SmallCup(), Coffee(), InsertSmallCups(1), Coin(), Coin(), Cancel(), InsertLargeCups(2), Coin(), Coin(), Cancel(), Coin(), Dispose()

Sequence of Transition: T1, T3, T4, T6, T7, T22, T23, T21, T25, T9, T6, T7, T10, T2, T6, T7, T10, T6, T5

Transition Pairs covered: (T1, T3), (T3, T4), (T4, T6), (T6, T7), (T7, T22), (T22, T23), (T23, T21), (T21, T25), (T25, T9), (T9, T6), (T6, T7), (T7, T10), (T10, T2), (T2, T6), (T6, T7), (T7, T10), (T10, T6), (T6, T5)

Test #20: InsertLargeCups(3), SetPrice(10), Coin(), LargeCup(), Sugar(), Sugar(), Coffee(), InsertSmallCups(3), Coin(), Sugar(), SmallCup(), Coffee(), SetPrice(51), Dispose()

Sequence of Transition: T1, T2, T4, T7, T19, T22, T23, T12, T3, T7, T22, T17, T15, T4, T5

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Transition Pairs covered: (T1, T2), (T2, T4), (T4, T7), (T7, T19), (T19, T22), (T22, T23), (T23, T12), (T12, T3), (T3, T7), (T7, T22), (T22, T17), (T17, T15), (T15, T4), (T4, T5)

Test #21: SetPrice(10), InsertLargeCups(1), Coin(), LargeCup(), Coffee(), InsertLargeCups(1), SetPrice(50), InsertLargeCups(3), Coin(), Coin(), LargeCup(), Coffee(), Coin(), Coin(), LargeCup(), Sugar(), Coffee(), Coin(), InsertSmallCups(3), Coin(), SmallCup(), Coffee(), Coin(), Dispose()

Sequence of Transition: T1, T4, T2, T7, T19, T24, T8, T4, T2, T6, T7, T19, T12, T6, T7, T19, T22, T13, T6, T3, T7, T21, T11, T6, T5

Transition Pairs covered: (T1, T4), (T4, T2), (T2, T7), (T7, T19), (T19, T24), (T24, T8), (T8, T4), (T4, T2), (T2, T6), (T6, T7), (T7, T19), (T19, T12), (T12, T6), (T6, T7), (T7, T19), (T19, T22), (T22, T13), (T13, T6), (T6, T3), (T3, T7), (T7, T21), (T21, T11), (T11, T6), (T6, T5)

Test #22: InsertSmallCups(3), InsertLargeCups(3), SetPrice(10), Coin(), Sugar(), LargeCup(), Coffee(), InsertLargeCups(3), Coin(), Sugar(), LargeCup(), Coffee(), SetPrice(50), Coin(), Coin(), Sugar(), SmallCup(), Coffee(), Coin(), Coin(), SmallCup(), Coffee(), Dispose()

Sequence of Transition: T1, T3, T2, T4, T7, T22, T18, T13, T2, T7, T22, T18, T13, T4, T6, T7, T22, T17, T15, T6, T7, T21, T11, T5

Transition Pairs covered: (T1, T3), (T3, T2), (T2, T4), (T4, T7), (T7, T22), (T22, T18), (T18, T13), (T13, T2), (T2, T7), (T7, T22), (T22, T18), (T18, T13), (T13, T4), (T4, T6), (T6, T7), (T7, T22), (T22, T17), (T17, T15), (T15, T6), (T6, T7), (T7, T21), (T21, T11), (T11, T5)

Test #23: InsertSmallCups(3), InsertLargeCups(3), SetPrice(10), Coin(), LargeCup(), Coffee(), SetPrice(8), Coin(), LargeCup(), Coffee(), Coin(), SmallCup(), Sugar(), Coffee(), InsertSmallCups(3), Dispose()

Sequence of Transition: T1, T3, T2, T4, T7, T19, T12, T4, T7, T19, T12, T7, T21, T22, T15, T3, T5

Transition Pairs covered: (T1, T3), (T3, T2), (T2, T4), (T4, T7), (T7, T19), (T19, T12), (T12, T4), (T4, T7), (T7, T19), (T19, T12), (T12, T7), (T7, T21), (T21, T22), (T22, T15), (T15, T3), (T3, T5)

Not Executable Pairs		Reasoning
T1	T6	For these pairs, price value is not set, and without price value, the coins cannot be executed
T1	T7	For these pairs, price value is not set, and without price value, the coins cannot be executed
T7	T11	When T7 is executed, s is set to zero, however the outgoing section requires s=2 to be satisfied, we need to call SmallCup for it to be executed
T7	T12	When T7 is executed, s is set to zero, however the outgoing section requires s=1 to be satisfied, we need to call LargeCup for it to be executed
T7	T24	When T7 is executed, s is set to zero, however the outgoing section requires s=1 to be satisfied, we need to call LargeCup for it to be executed
T7	T25	When T7 is executed, s is set to zero, however the outgoing section requires s=2 to be satisfied, we need to call SmallCup for it to be executed
T19	T11	When T19 is executed, we are adding LargeCup but T11 is disposing small cup of coffee
T19	T25	When T19 is executed, we are adding LargeCup but T25 is disposing small cup of coffee
T21	T12	When T21 is executed, we are adding SmallCup but T11 is disposing Large cup of coffee
T21	T24	When T21 is executed, we are adding SmallCup but T24 is disposing Large cup of coffee
T17	T13	When T17 is executed, we are adding SmallCup but T13 is disposing Large cup of coffee
T17	T26	When T17 is executed, we are adding SmallCup but T26 is disposing Large cup of coffee
T18	T15	When T18 is executed, we are adding LargeCup but T15 is disposing small cup of coffee
T18	T27	When T18 is executed, we are adding LargeCup but T27 is disposing small cup of coffee

2. Testing default (ghost) transitions of the VendingMachine class

In this testing, when the task is executed, there will be no change of state and no actions are performed.

State	Default Transitions	TestCase	Comments
Start state	Coin(), SmallCup(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(n), InsertSmallCups(n), SetPrice(p), Cancel(), Dispose()	Test #32.a	By default, the test suite state starts from idle, i.e T1 is already executed, hence it is not possible to execute it in test suite
idle	SmallCup(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(n)[n<=0], InsertSmallCups(n)[n<=0], SetPrice(p)[p<=0], Cancel(), Coin()[t+25>=price && price<=0], VendingMachine()	Test #24	VendingMachine(), i.e. T1 will also be default transition as per EFSM diagram, however it cannot be executed in test suite as it is a constructor and will be executed on object creation only
coins inserted	InsertLargeCups(n), InsertSmallCups(n), SetPrice(p), Dispose(), Coffee()[k<1 && k1<1], Coffee()[k>=1 && s!=1 && s!=2], Coffee()[k1>=1 && s!=1 && s!=2], VendingMachine()	Test #25, Test #26, Test #27	VendingMachine(), i.e. T1 will also be default transition as per EFSM diagram, however it cannot be executed in test suite as it is a constructor and will be executed on object creation only
sugar	InsertLargeCups(n), InsertSmallCups(n), SetPrice(p), Dispose(), Coffee()[k<1 && k1<1], Coffee()[k>=1 && s!=1 && s!=2], Coffee()[k1>=1 && s!=1 && s!=2], VendingMachine()	Test #28, Test #29, Test #30	VendingMachine(), i.e. T1 will also be default transition as per EFSM diagram, however it cannot be executed in test suite as it is a constructor and will be executed on object creation only
no small cups	SmallCup(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(n), InsertSmallCups(n)[n<=0], SetPrice(p), Cancel(), Dispose(), VendingMachine()	Test #31	VendingMachine(), i.e. T1 will also be default transition as per EFSM diagram, however it cannot be executed in test suite as it is a constructor and will be executed on object creation only
no large_cups	SmallCup(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(n)[n<=0], InsertSmallCups(n), SetPrice(p), Cancel(), Dispose(), VendingMachine()	Test #32	VendingMachine(), i.e. T1 will also be default transition as per EFSM diagram, however it cannot be executed in test suite as it is a constructor and will be executed on object creation only

Test Cases:

Note: The blue colored text refers to the default transitions

Default Transitions for **state ‘idle’** is tested in Test #24

Test #24: **SmallCup()**, **LargeCup()**, **Sugar()**, **Coffee()**, **InsertLargeCups(0)**, **InsertLargeCups(-1)**, **InsertSmallCups(0)**, **InsertSmallCups(-1)**, **SetPrice(0)**, **SetPrice(-1)**, **Cancel()**, **Coin()**, **Dispose()**

Default Transitions for **state ‘coins inserted’** is tested in Test #25, Test #26, Test #27

Test #25: **SetPrice(10)**, **Coin()**, **LargeCup()**, **Coffee()**, **SmallCup()**, **Coffee()**, **InsertLargeCups(2)**, **InsertSmallCups(3)**, **SetPrice(2)**, **Dispose()**, **Cancel()**, **Dispose()**

Test #26: **SetPrice(10)**, **InsertLargeCups(2)**, **Coin()**, **Coffee()**, **Cancel()**, **Dispose()**

Test #27: **SetPrice(10)**, **InsertSmallCups(2)**, **Coin()**, **Coffee()**, **Cancel()**, **Dispose()**

Default Transitions for **state ‘sugar’** is tested in Test #28, Test #29, Test #30

Test #28: **SetPrice(10)**, **Coin()**, **Sugar()**, **LargeCup()**, **Coffee()**, **SmallCup()**, **Coffee()**, **InsertLargeCups(2)**, **InsertSmallCups(2)**, **Dispose()**, **SetPrice(2)**, **Cancel()**, **Dispose()**

Test #29: **SetPrice(10)**, **InsertLargeCups(2)**, **Coin()**, **Sugar()**, **Coffee()**, **InsertLargeCups(1)**, **Cancel()**, **Dispose()**

Test #30: **SetPrice(10)**, **InsertSmallCups(2)**, **Coin()**, **Sugar()**, **Coffee()**, **InsertSmallCups(1)**, **Cancel()**, **Dispose()**

Default Transitions for **state ‘no small cups’** is tested in Test #31

Test #31: **SetPrice(10)**, **InsertSmallCups(1)**, **Coin()**, **SmallCup()**, **Coffee()**, **SmallCup()**, **LargeCup()**, **Sugar()**, **Coffee()**, **InsertLargeCups(1)**, **InsertSmallCups(0)**, **InsertSmallCups(-1)**, **SetPrice(2)**, **Dispose()**, **Cancel()**, **InsertSmallCups(2)**, **Dispose()**

Default Transitions for state ‘no large_cups’ is tested in Test #32

Test #32: SetPrice(10), InsertLargeCups(1), Coin(), LargeCup(), Coffee(), SmallCup(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(0), InsertLargeCups(-1), InsertSmallCups(2), SetPrice(2), Cancel(), Dispose(), InsertLargeCups(2), Dispose()

Test case for Default Transitions for **start state**.

Note: Assumption is object is not created currently and T1 is not yet executed only then the below testcase will be valid.

Test #32.a: Coin(), SmallCup(), LargeCup(), Sugar(), Coffee(), InsertLargeCups(1), InsertSmallCups(1), SetPrice(10), Cancel(), Dispose(), VendingMachine(), Dispose()

Not executable test cases:

All the default transitions in start state are not executable test case.

VendingMachine() is the default transition in idle state, coins inserted state, sugar, no small cups state, and no large_cups state and these are also not executable.

3. Multiple-condition testing

Every Multiple conditions/ Branches in the source code of VendingMachine class is executed.

Note: the sl.no for each event execution is provided within test case for multiple condition. The screenshots are provided at end within the multiple condition testing section itself.

a. Method Coin()

Method: Coin()		sl.no within the test
Condition: if ($x == 1$)		
$x == 1$	Test Case	
T	Test #33	4
F	Test #34	9

Method: Coin()			sl.no within the test
Condition: if ($(t + 25 \geq w) \&\& (w > 0)$)			
$t + 25 \geq w$	$w > 0$	Test Case	
T	T	Test #33	4
T	F	Test #38	3
F	T	Test #36	4
F	F	Not Executable	NA

Method: Coin()		sl.no within the test
Condition: else if ($t + 25 < w$)		
$t + 25 < w$	Test Case	
T	Test #36	4
F	Test #38	3

Method: Coin()			sl.no within the test
Condition: else if (($x > 1$) $\&\&$ ($x < 6$))			
$(x > 1)$	$(x < 6)$	Test Case	
T	T	Test #34	9
T	F	Not Executable	NA
F	T	Not Executable	NA
F	F	Not Executable	NA

b. Method SmallCup()

Method: SmallCup()			sl.no within the test
Condition: if ((x == 2) (x == 3))		Test Case	
(x == 2)	(x == 3)		
T	T	Not Executable	NA
T	F	Test #36	6
F	T	Test #33	7
F	F	Test #39	9

c. Method LargeCup()

Method: LargeCup()			sl.no within the test
Condition: if ((x == 2) (x == 3))		Test Case	
(x == 2)	(x == 3)		
T	T	Not Executable	NA
T	F	Test #34	10
F	T	Test #34	6
F	F	Test #39	10

d. Method Sugar()

Method: Sugar()			sl.no within the test
Condition: if ((x==2) (x==3))		Test Case	
(x == 2)	(x == 3)		
T	T	Not Executable	NA
T	F	Test #33	5
F	T	Test #37	7
F	F	Test #40	5

Method: Sugar()			sl.no within the test
Condition: if(x==2)		Test Case	
(x==2)			
T	Test #33	5	
F	Test #37	7	

e. Method Coffee()

Method: Coffee()			sl.no within the test
Condition: if ((x == 2) (x == 3))		Test Case	
(x == 2)	(x == 3)		
T	T	Not Executable	NA
T	F	Test #33	11
F	T	Test #33	8
F	F	Test #41	6

Method: Coffee()				sl.no within the test
Condition: if ((x == 2) && (k > 1) && (s == 2))			Test Case	
(x == 2)	(k > 1)	(s == 2)		
T	T	T	Test #36	13
T	T	F	Test #38	6
T	F	T	Test #33	11
T	F	F	Test #34	11
F	T	T	Test #33	8
F	T	F	Test #40	8
F	F	T	Test #36	8
F	F	F	Test #34	7

Method: Coffee()				sl.no within the test
Condition: else if ((x == 2) && (k1 > 1) && (s == 1))				
(x == 2)	(k1 > 1)	(s == 1)	Test Case	
T	T	T	Test #35	11
T	T	F	Test #39	5
T	F	T	Test #34	11
T	F	F	Test #33	11
F	T	T	Test #34	7
F	T	F	Test #37	10
F	F	T	Test #35	7
F	F	F	Test #33	8

Method: Coffee()				sl.no within the test
Condition: else if ((x == 2) && (k1 == 1) && (s == 1))				
(x == 2)	(k1 == 1)	(s == 1)	Test Case	
T	T	T	Test #34	11
T	T	F	Test #40	15
T	F	T	Test #42	7
T	F	F	Test #33	11
F	T	T	Test #35	7
F	T	F	Test #40	8
F	F	T	Test #34	7
F	F	F	Test #33	8

Method: Coffee()				sl.no within the test
Condition: else if ((x == 2) && (k == 1) && (s == 2))				
(x == 2)	(k == 1)	(s == 2)	Test Case	
T	T	T	Test #33	11
T	T	F	Test #40	15
T	F	T	Test #39	7
T	F	F	Test #38	6
F	T	T	Test #36	8
F	T	F	Test #40	13
F	F	T	Test #33	8
F	F	F	Test #34	7

Method: Coffee()				sl.no within the test
Condition: else if ((x == 3) && (k == 1) && (s == 2))				
(x == 3)	(k == 1)	(s == 2)	Test Case	
T	T	T	Test #36	8
T	T	F	Test #40	13
T	F	T	Test #33	8
T	F	F	Test #34	7
F	T	T	Not Executable	NA
F	T	F	Test #40	15
F	F	T	Test #41	11
F	F	F	Test #38	6

Method: Coffee()				sl.no within the test
Condition: else if ((x == 3) && (k1 == 1) && (s == 1))				
(x == 3)	(k1 == 1)	(s == 1)	Test Case	
T	T	T	Test #35	7
T	T	F	Test #40	8
T	F	T	Test #34	7
T	F	F	Test #33	8
F	T	T	Not Executable	NA
F	T	F	Test #40	15
F	F	T	Test #42	7
F	F	F	Test #38	6

Method: Coffee()				sl.no within the test
Condition: if ((x == 3) && (k > 1) && (s == 2))				
(x == 3)	(k > 1)	(s == 2)	Test Case	
T	T	T	Test #33	8
T	T	F	Test #40	8
T	F	T	Test #40	10
T	F	F	Test #34	7
F	T	T	Not Executable	NA
F	T	F	Test #38	6
F	F	T	Test #39	7
F	F	F	Test #39	5

Method: Coffee()				sl.no within the test
Condition: else if ((x == 3) && (k1 > 1) && (s == 1))				
(x == 3)	(k1 > 1)	(s == 1)	Test Case	
T	T	T	Test #34	7
T	T	F	Test #41	13
T	F	T	Test #42	7
T	F	F	Test #40	8
F	T	T	Not Executable	NA
F	T	F	Test #39	5
F	F	T	Test #42	7
F	F	F	Test #38	6

f. Method InsertLargeCups(n)

Method: InsertLargeCups(n)			sl.no within the test
Condition: if ((x == 1) && (n > 0))			
(x == 1)	(n > 0)	Test Case	
T	T	Test #34	3
T	F	Test #41	3
F	T	Test #34	12
F	F	Test #43	7

Method: InsertLargeCups(n)			sl.no within the test
Condition: else if ((x == 5) && (n > 0))			
(x == 5)	(n > 0)	Test Case	
T	T	Test #34	12
T	F	Test #43	7
F	T	Test #40	17
F	F	Test #41	3

g. Method InsertSmallCups(n)

Method: InsertSmallCups(n)			sl.no within the test
Condition: if ((x == 1) && (n > 0))			
(x == 1)	(n > 0)	Test Case	
T	T	Test #33	3
T	F	Test #41	4
F	T	Test #33	12
F	F	Test #42	12

Method: InsertSmallCups(n)			sl.no within the test
Condition: else if ((x == 4) && (n > 0))			
(x == 4)	(n > 0)	Test Case	
T	T	Test #33	12
T	F	Test #42	12
F	T	Test #40	16
F	F	Test #41	4

h. Method SetPrice(p)

Method: SetPrice(p)			sl.no within the test
Condition: if ((x == 1) && (p > 0))			
(x == 1)	(p > 0)	Test Case	
T	T	Test #33	2
T	F	Test #42	2
F	T	Test #41	9
F	F	Test #41	14

i. Method Cancel()

Method: Cancel()			sl.no within the test
Condition: if ((x == 2) (x == 3))			
(x == 2)	(x == 3)	Test Case	
T	T	Not Executable	NA
T	F	Test #34	14
F	T	Test #37	14
F	F	Test #41	5

j. Method Dispose()

Method: Dispose()			sl.no within the test
Condition: if ((x == 1))			
x == 1	Test Case		
T	Test #33	13	
F	Test #38	7	

Test Cases:

State reflects the state post execution of event in the row, if the Result reflects same the behavior is as expected as EFSM, in case if its same as expected then ‘Passed’. The private variable value in the row reflects the value post the event in the row is executed. Comments section contains information on p and n value which are the parameters when a method is run.

Test #33: SetPrice(10), InsertSmallCups(2), Coin(), Sugar(), Coin(), SmallCup(), Coffee(), Coin(), SmallCup(), Coffee(), InsertSmallCups(2), Dispose()

Test #33	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	3	InsertSmallCups(2)	x = 1	w = 10	k1 = 0	k = 2	t = 0	s = 0	idle	n value is 2	Passed
	4	Coin()	x = 2	w = 10	k1 = 0	k = 2	t = 0	s = 0	coins inserted		Passed
	5	Sugar()	x = 3	w = 10	k1 = 0	k = 2	t = 0	s = 0	sugar		Passed
	6	Coin()	x = 3	w = 10	k1 = 0	k = 2	t = 0	s = 0	sugar		Passed
	7	SmallCup()	x = 3	w = 10	k1 = 0	k = 2	t = 0	s = 2	sugar		Passed
	8	Coffee()	x = 1	w = 10	k1 = 0	k = 1	t = 0	s = 2	idle		Passed
	9	Coin()	x = 2	w = 10	k1 = 0	k = 1	t = 0	s = 0	coins inserted		Passed
	10	SmallCup()	x = 2	w = 10	k1 = 0	k = 1	t = 0	s = 2	coins inserted		Passed
	11	Coffee()	x = 4	w = 10	k1 = 0	k = 0	t = 0	s = 2	no small cups		Passed
	12	InsertSmallCups(2)	x = 1	w = 10	k1 = 0	k = 2	t = 0	s = 2	idle	n value is 2	Passed
	13	Dispose()	x = 6	w = 10	k1 = 0	k = 2	t = 0	s = 2	exit		Passed

Test #34: SetPrice(10), InsertLargeCups(2), Coin(), Sugar(), LargeCup(), Coffee(), Coin(), Coin(), LargeCup(), Coffee(), InsertLargeCups(2), Coin(), Cancel(), Dispose()

Test #34	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	3	InsertLargeCups(2)	x = 1	w = 10	k1 = 2	k = 0	t = 0	s = 0	idle	n value is 2	Passed
	4	Coin()	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 0	coins inserted		Passed
	5	Sugar()	x = 3	w = 10	k1 = 2	k = 0	t = 0	s = 0	sugar		Passed
	6	LargeCup()	x = 3	w = 10	k1 = 2	k = 0	t = 0	s = 1	sugar		Passed
	7	Coffee()	x = 1	w = 10	k1 = 1	k = 0	t = 0	s = 1	idle		Passed
	8	Coin()	x = 2	w = 10	k1 = 1	k = 0	t = 0	s = 0	coins inserted		Passed
	9	Coin()	x = 2	w = 10	k1 = 1	k = 0	t = 0	s = 0	coins inserted		Passed
	10	LargeCup()	x = 2	w = 10	k1 = 1	k = 0	t = 0	s = 1	coins inserted		Passed
	11	Coffee()	x = 5	w = 10	k1 = 0	k = 0	t = 0	s = 1	no large_cups		Passed
	12	InsertLargeCups(2)	x = 1	w = 10	k1 = 2	k = 0	t = 0	s = 1	idle	n value is 2	Passed
	13	Coin()	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 0	coins inserted		Passed
	14	Cancel()	x = 1	w = 10	k1 = 2	k = 0	t = 0	s = 0	idle		Passed
	15	Dispose()	x = 6	w = 10	k1 = 2	k = 0	t = 0	s = 0	exit		Passed

Test #35: SetPrice(10), InsertLargeCups(1), Coin(), Sugar(), LargeCup(), Coffee(), InsertLargeCups(2), Coin(), LargeCup(), Coffee(), Dispose()

Test #35	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	3	InsertLargeCups(1)	x = 1	w = 10	k1 = 1	k = 0	t = 0	s = 0	idle	n value is 1	Passed
	4	Coin()	x = 2	w = 10	k1 = 1	k = 0	t = 0	s = 0	coins inserted		Passed
	5	Sugar()	x = 3	w = 10	k1 = 1	k = 0	t = 0	s = 0	sugar		Passed
	6	LargeCup()	x = 3	w = 10	k1 = 1	k = 0	t = 0	s = 1	sugar		Passed
	7	Coffee()	x = 5	w = 10	k1 = 0	k = 0	t = 0	s = 1	no large_cups		Passed
	8	InsertLargeCups(2)	x = 1	w = 10	k1 = 2	k = 0	t = 0	s = 1	idle	n value is 2	Passed
	9	Coin()	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 0	coins inserted		Passed
	10	LargeCup()	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 1	coins inserted		Passed
	11	Coffee()	x = 1	w = 10	k1 = 1	k = 0	t = 0	s = 1	idle		Passed
	12	Dispose()	x = 6	w = 10	k1 = 1	k = 0	t = 0	s = 1	exit		Passed

Test #36: SetPrice(50), InsertSmallCups(1), Coin(), Coin(), SmallCup(), Sugar(), Coffee(), InsertSmallCups(2), Coin(), Coin(), SmallCup(), Coffee(), Dispose()

Test #36	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(50)	x = 1	w = 50	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 50	Passed
	3	InsertSmallCups(1)	x = 1	w = 50	k1 = 0	k = 1	t = 0	s = 0	idle	n value is 1	Passed
	4	Coin()	x = 1	w = 50	k1 = 0	k = 1	t = 25	s = 0	idle		Passed
	5	Coin()	x = 2	w = 50	k1 = 0	k = 1	t = 0	s = 0	coins inserted		Passed
	6	SmallCup()	x = 2	w = 50	k1 = 0	k = 1	t = 0	s = 2	coins inserted		Passed
	7	Sugar()	x = 3	w = 50	k1 = 0	k = 1	t = 0	s = 2	sugar		Passed
	8	Coffee()	x = 4	w = 50	k1 = 0	k = 0	t = 0	s = 2	no small cups		Passed
	9	InsertSmallCups(2)	x = 1	w = 50	k1 = 0	k = 2	t = 0	s = 2	idle	n value is 2	Passed
	10	Coin()	x = 1	w = 50	k1 = 0	k = 2	t = 25	s = 2	idle		Passed
	11	Coin()	x = 2	w = 50	k1 = 0	k = 2	t = 0	s = 0	coins inserted		Passed
	12	SmallCup()	x = 2	w = 50	k1 = 0	k = 2	t = 0	s = 2	coins inserted		Passed
	13	Coffee()	x = 1	w = 50	k1 = 0	k = 1	t = 0	s = 2	idle		Passed
	14	Dispose()	x = 6	w = 50	k1 = 0	k = 1	t = 0	s = 2	exit		Passed

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Test #37: SetPrice(10), InsertLargeCups(3), InsertSmallCups(1), Coin(), Sugar(), Sugar(), Sugar(), SmallCup(), Coffee(), InsertSmallCups(3), Coin(), Sugar(), Cancel(), Dispose()

Test #37	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	3	InsertLargeCups(3)	x = 1	w = 10	k1 = 3	k = 0	t = 0	s = 0	idle	n value is 3	Passed
	4	InsertSmallCups(1)	x = 1	w = 10	k1 = 3	k = 1	t = 0	s = 0	idle	n value is 1	Passed
	5	Coin()	x = 2	w = 10	k1 = 3	k = 1	t = 0	s = 0	coins inserted		Passed
	6	Sugar()	x = 3	w = 10	k1 = 3	k = 1	t = 0	s = 0	sugar		Passed
	7	Sugar()	x = 2	w = 10	k1 = 3	k = 1	t = 0	s = 0	coins inserted		Passed
	8	Sugar()	x = 3	w = 10	k1 = 3	k = 1	t = 0	s = 0	sugar		Passed
	9	SmallCup()	x = 3	w = 10	k1 = 3	k = 1	t = 0	s = 2	sugar		Passed
	10	Coffee()	x = 4	w = 10	k1 = 3	k = 0	t = 0	s = 2	no small cups		Passed
	11	InsertSmallCups(3)	x = 1	w = 10	k1 = 3	k = 3	t = 0	s = 2	idle	n value is 3	Passed
	12	Coin()	x = 2	w = 10	k1 = 3	k = 3	t = 0	s = 0	coins inserted		Passed
	13	Sugar()	x = 3	w = 10	k1 = 3	k = 3	t = 0	s = 0	sugar		Passed
	14	Cancel()	x = 1	w = 10	k1 = 3	k = 3	t = 0	s = 0	idle		Passed
	15	Dispose()	x = 6	w = 10	k1 = 3	k = 3	t = 0	s = 0	exit		Passed

Test #38: InsertSmallCups(3), Coin(), SetPrice(10), Coin(), Coffee(), Dispose(), Cancel(), Dispose()

Test #38	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	InsertSmallCups(3)	x = 1	w = 0	k1 = 0	k = 3	t = 0	s = 0	idle	n value is 3	Passed
	3	Coin()	x = 1	w = 0	k1 = 0	k = 3	t = 0	s = 0	idle		Passed
	4	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 3	t = 0	s = 0	idle	p value is 10	Passed
	5	Coin()	x = 2	w = 10	k1 = 0	k = 3	t = 0	s = 0	coins inserted		Passed
	6	Coffee()	x = 2	w = 10	k1 = 0	k = 3	t = 0	s = 0	coins inserted		Passed
	7	Dispose()	x = 2	w = 10	k1 = 0	k = 3	t = 0	s = 0	coins inserted		Passed
	8	Cancel()	x = 1	w = 10	k1 = 0	k = 3	t = 0	s = 0	idle		Passed
	9	Dispose()	x = 6	w = 10	k1 = 0	k = 3	t = 0	s = 0	exit		Passed

Test #39: InsertLargeCups(3), SetPrice(10), Coin(), Coffee(), SmallCup(), Coffee(), Cancel(), SmallCup(), LargeCup(), Dispose()

Test #39	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	InsertLargeCups(3)	x = 1	w = 0	k1 = 3	k = 0	t = 0	s = 0	idle	n value is 3	Passed
	3	SetPrice(10)	x = 1	w = 10	k1 = 3	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	4	Coin()	x = 2	w = 10	k1 = 3	k = 0	t = 0	s = 0	coins inserted		Passed
	5	Coffee()	x = 2	w = 10	k1 = 3	k = 0	t = 0	s = 0	coins inserted		Passed
	6	SmallCup()	x = 2	w = 10	k1 = 3	k = 0	t = 0	s = 2	coins inserted		Passed
	7	Coffee()	x = 2	w = 10	k1 = 3	k = 0	t = 0	s = 2	coins inserted		Passed
	8	Cancel()	x = 1	w = 10	k1 = 3	k = 0	t = 0	s = 2	idle		Passed
	9	SmallCup()	x = 1	w = 10	k1 = 3	k = 0	t = 0	s = 2	idle		Passed
	10	LargeCup()	x = 1	w = 10	k1 = 3	k = 0	t = 0	s = 2	idle		Passed
	11	Dispose()	x = 6	w = 10	k1 = 3	k = 0	t = 0	s = 2	exit		Passed

Test #40: SetPrice(10), InsertSmallCups(2), InsertLargeCups(1), Sugar(), Coin(), Sugar(), Coffee(), SmallCup(), Coffee(), Coin(), Sugar(), Coffee(), Sugar(), Coffee(), InsertSmallCups(3), InsertLargeCups(3), Cancel(), Dispose()

Test #40	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	3	InsertSmallCups(2)	x = 1	w = 10	k1 = 0	k = 2	t = 0	s = 0	idle	n value is 2	Passed
	4	InsertLargeCups(1)	x = 1	w = 10	k1 = 1	k = 2	t = 0	s = 0	idle	n value is 1	Passed
	5	Sugar()	x = 1	w = 10	k1 = 1	k = 2	t = 0	s = 0	idle		Passed
	6	Coin()	x = 2	w = 10	k1 = 1	k = 2	t = 0	s = 0	coins inserted		Passed
	7	Sugar()	x = 3	w = 10	k1 = 1	k = 2	t = 0	s = 0	sugar		Passed
	8	Coffee()	x = 3	w = 10	k1 = 1	k = 2	t = 0	s = 0	sugar		Passed
	9	SmallCup()	x = 3	w = 10	k1 = 1	k = 2	t = 0	s = 2	sugar		Passed
	10	Coffee()	x = 1	w = 10	k1 = 1	k = 1	t = 0	s = 2	idle		Passed
	11	Coin()	x = 2	w = 10	k1 = 1	k = 1	t = 0	s = 0	coins inserted		Passed
	12	Sugar()	x = 3	w = 10	k1 = 1	k = 1	t = 0	s = 0	sugar		Passed
	13	Coffee()	x = 3	w = 10	k1 = 1	k = 1	t = 0	s = 0	sugar		Passed
	14	Sugar()	x = 2	w = 10	k1 = 1	k = 1	t = 0	s = 0	coins inserted		Passed
	15	Coffee()	x = 2	w = 10	k1 = 1	k = 1	t = 0	s = 0	coins inserted		Passed
	16	InsertSmallCups(3)	x = 2	w = 10	k1 = 1	k = 1	t = 0	s = 0	coins inserted	n value is 3	Passed
	17	InsertLargeCups(3)	x = 2	w = 10	k1 = 1	k = 1	t = 0	s = 0	coins inserted	n value is 3	Passed
	18	Cancel()	x = 1	w = 10	k1 = 1	k = 1	t = 0	s = 0	idle		Passed
	19	Dispose()	x = 6	w = 10	k1 = 1	k = 1	t = 0	s = 0	exit		Passed

Test #41: SetPrice(10), InsertLargeCups(0), InsertSmallCups(0), Cancel(), Coffee(), InsertLargeCups(2), Coin(), SetPrice(20), SmallCup(), Coffee(), Sugar(), Coffee(), SetPrice(0), Cancel(), Dispose()

Test #41	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	3	InsertLargeCups(0)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	n value is 0	Passed
	4	InsertSmallCups(0)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	n value is 0	Passed
	5	Cancel()	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	6	Coffee()	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	7	InsertLargeCups(2)	x = 1	w = 10	k1 = 2	k = 0	t = 0	s = 0	idle	n value is 2	Passed
	8	Coin()	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 0	coins inserted		Passed
	9	SetPrice(20)	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 0	coins inserted	p value is 20	Passed
	10	SmallCup()	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 2	coins inserted		Passed
	11	Coffee()	x = 2	w = 10	k1 = 2	k = 0	t = 0	s = 2	coins inserted		Passed
	12	Sugar()	x = 3	w = 10	k1 = 2	k = 0	t = 0	s = 2	sugar		Passed
	13	Coffee()	x = 3	w = 10	k1 = 2	k = 0	t = 0	s = 2	sugar		Passed
	14	SetPrice(0)	x = 3	w = 10	k1 = 2	k = 0	t = 0	s = 2	sugar	p value is 0	Passed
	15	Cancel()	x = 1	w = 10	k1 = 2	k = 0	t = 0	s = 2	idle		Passed
	16	Dispose()	x = 6	w = 10	k1 = 2	k = 0	t = 0	s = 2	exit		Passed

Test #42: SetPrice(0), SetPrice(10), InsertSmallCups(1), Coin(), LargeCup(), Coffee(), Sugar(), Coffee(), SmallCup(), Coffee(), InsertSmallCups(0), InsertSmallCups(2), Dispose()

Test #42	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(0)	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 0	Passed
	3	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	4	InsertSmallCups(1)	x = 1	w = 10	k1 = 0	k = 1	t = 0	s = 0	idle	n value is 1	Passed
	5	Coin()	x = 2	w = 10	k1 = 0	k = 1	t = 0	s = 0	coins inserted		Passed
	6	LargeCup()	x = 2	w = 10	k1 = 0	k = 1	t = 0	s = 1	coins inserted		Passed
	7	Coffee()	x = 2	w = 10	k1 = 0	k = 1	t = 0	s = 1	coins inserted		Passed
	8	Sugar()	x = 3	w = 10	k1 = 0	k = 1	t = 0	s = 1	sugar		Passed
	9	Coffee()	x = 3	w = 10	k1 = 0	k = 1	t = 0	s = 1	sugar		Passed
	10	SmallCup()	x = 3	w = 10	k1 = 0	k = 1	t = 0	s = 2	sugar		Passed
	11	Coffee()	x = 4	w = 10	k1 = 0	k = 0	t = 0	s = 2	no small cups		Passed
	12	InsertSmallCups(0)	x = 4	w = 10	k1 = 0	k = 0	t = 0	s = 2	no small cups	n value is 0	Passed
	13	InsertSmallCups(2)	x = 1	w = 10	k1 = 0	k = 2	t = 0	s = 2	idle	n value is 2	Passed
	14	Dispose()	x = 6	w = 10	k1 = 0	k = 2	t = 0	s = 2	exit		Passed

Test #43: SetPrice(10), InsertLargeCups(1), Coin(), LargeCup(), Coffee(), InsertLargeCups(0), InsertLargeCups(1), Dispose()

Test #43	Sl.no	Event	x	w	k1	k	t	s	State	Comments	Result
	1	VendingMachine()	x = 1	w = 0	k1 = 0	k = 0	t = 0	s = 0	idle		Passed
	2	SetPrice(10)	x = 1	w = 10	k1 = 0	k = 0	t = 0	s = 0	idle	p value is 10	Passed
	3	InsertLargeCups(1)	x = 1	w = 10	k1 = 1	k = 0	t = 0	s = 0	idle	n value is 1	Passed
	4	Coin()	x = 2	w = 10	k1 = 1	k = 0	t = 0	s = 0	coins inserted		Passed
	5	LargeCup()	x = 2	w = 10	k1 = 1	k = 0	t = 0	s = 1	coins inserted		Passed
	6	Coffee()	x = 5	w = 10	k1 = 0	k = 0	t = 0	s = 1	no large_cups		Passed
	7	InsertLargeCups(0)	x = 5	w = 10	k1 = 0	k = 0	t = 0	s = 1	no large_cups	n value is 0	Passed
	8	InsertLargeCups(1)	x = 1	w = 10	k1 = 1	k = 0	t = 0	s = 1	idle	n value is 1	Passed
	9	Dispose()	x = 6	w = 10	k1 = 1	k = 0	t = 0	s = 1	exit		Passed

Not Executable Cases in multiple condition testing scenario

sl.no	Source code LineNumber (Provided in Assignment)	Not Executable Cases		Reasoning
1	19	t + 25 >= w	w > 0	In this case, w > 0 has to be false but keeping value as greater less than and equal to 0 then by default t+25>=w would be true.
		F	F	
2	28	(x > 1)	(x < 6)	No state with x value greater than 6 is present
		T	F	No state with x value lesser than 1 is present
		F	F	No state with x value greater than 6 is present and lesser than 1 is present
3	36	(x == 2)	(x == 3)	x value cannot be 2 and 3 at same time
		T	T	
4	44	(x == 2)	(x == 3)	x value cannot be 2 and 3 at same time
		T	T	
5	52	(x == 2)	(x == 3)	x value cannot be 2 and 3 at same time
		T	T	
6	62	(x == 2)	(x == 3)	x value cannot be 2 and 3 at same time
		T	T	
7	83	(x == 3)	(k == 1)	This scenario will be handled in (x==2)&&(k==1)&&(s==2) condition (source code line number 78), hence the code will not flow to this line.
		F	T	
8	88	(x == 3)	(k1 == 1)	This scenario will be handled in (x==2)&&(k1==1)&&(s==1) condition (source code line number 73), hence the code will not flow to this line.
		F	T	
9	94	(x == 3)	(k > 1)	This scenario will be handled in (x==2)&&(k>1)&&(s==2) condition (source code line number 63), hence the code will not flow to this line.
		F	T	
10	99	(x == 3)	(k1 > 1)	This scenario will be handled in (x==2)&&(k1>1)&&(s==1) condition (source code line number 68), hence the code will not flow to this line.
		F	T	
11	143	(x == 2)	(x == 3)	x value cannot be 2 and 3 at same time
		T	T	

4. Test Suite

The test suite is created and stored in TS.txt file (Attached with rest of files)

File was successfully run in the test suit checker. Please find the below screenshot for reference

```
Dispose() method
Test#42:
    SetPrice(0) method
    SetPrice(10) method
    InsertSmallCups(1) method
    Coin() method
    LargeCup() method
    Coffee() method
    Sugar() method
    Coffee() method
    SmallCup() method
    Coffee() method
    InsertSmallCups(0) method
    InsertSmallCups(2) method
    Dispose() method
Test#43:
    SetPrice(10) method
    InsertLargeCups(1) method
    Coin() method
    LargeCup() method
    Coffee() method
    InsertLargeCups(0) method
    InsertLargeCups(1) method
    Dispose() method

The test suite has been checked.
No errors have been detected.

Press any key to continue
```

File Content in TS.txt provided below:

Test#1: SetPrice 20 InsertLargeCups 3 Coin Coin LargeCup Coffee Dispose

Test#2: InsertLargeCups 3 SetPrice 20 Coin LargeCup Sugar Coin Coffee Dispose

Test#3: InsertSmallCups 3 SetPrice 20 Coin SmallCup Sugar Coffee Dispose

Test#4: InsertSmallCups 1 SetPrice 20 Coin Sugar SmallCup Coin Coffee InsertSmallCups 1 Coin SmallCup
Coffee InsertSmallCups 1 Dispose

Test#5: SetPrice 20 InsertLargeCups 2 InsertSmallCups 2 Coin SmallCup LargeCup Sugar LargeCup Sugar
Cancel Dispose

Test#6: Dispose

Test#7: SetPrice 100 InsertLargeCups 1 InsertLargeCups 1 Coin SetPrice 10 InsertSmallCups 1 InsertSmallCups
1 Coin LargeCup LargeCup SmallCup SmallCup Cancel SetPrice 12 Dispose

Test#8: SetPrice 100 InsertSmallCups 1 Coin SetPrice 12 SetPrice 10 Coin Cancel Coin Coin SmallCup
Sugar SmallCup Coffee InsertSmallCups 1 InsertLargeCups 1 Dispose

Test#9: SetPrice 10 InsertSmallCups 2 InsertLargeCups 1 Coin Sugar SmallCup Coffee Coin LargeCup Coin
Coffee Coin InsertLargeCups 1 Coin SmallCup Coin Sugar Cancel Dispose

Test#10: InsertSmallCups 1 SetPrice 2 Coin SmallCup Sugar Coin Sugar Coffee Coin Coin InsertSmallCups 1
InsertSmallCups 1 Dispose

Test#11: SetPrice 26 Coin InsertLargeCups 1 Coin Sugar LargeCup LargeCup Sugar Coffee InsertLargeCups 1
InsertSmallCups 1 Coin Coin SmallCup Sugar Coffee Coin InsertSmallCups 1 SetPrice 100 Coin Dispose

Test#12: SetPrice 51 Coin Coin InsertSmallCups 1 InsertLargeCups 1 Coin LargeCup Sugar Coffee
InsertLargeCups 1 InsertLargeCups 1 SetPrice 2 Coin LargeCup Sugar Coffee Coin Sugar SmallCup SmallCup
Cancel SetPrice 10 Dispose

Test#13: SetPrice 25 InsertLargeCups 1 Coin LargeCup Cancel Coin LargeCup Sugar Coffee Coin InsertLargeCups 1 Coin Coin Cancel InsertSmallCups 1 Dispose

Test#14: InsertSmallCups 2 SetPrice 10 Coin Sugar Coin Coin SmallCup Sugar Coin Coffee InsertSmallCups 1 Coin LargeCup SmallCup Coffee InsertLargeCups 1 Coin LargeCup Coffee InsertLargeCups 1 Dispose

Test#15: InsertSmallCups 2 SetPrice 2 Coin SmallCup Sugar Coin Coin Coffee InsertLargeCups 1 Coin Sugar Coin Cancel InsertLargeCups 1 Coin Sugar Sugar LargeCup Coin Coffee InsertLargeCups 1 Dispose

Test#16: InsertSmallCups 1 SetPrice 10 Coin SmallCup Coin Coffee InsertSmallCups 1 InsertLargeCups 2 Coin Sugar Coin LargeCup Coffee InsertSmallCups 1 Coin SmallCup Coin Coffee SetPrice 20 Dispose

Test#17: InsertLargeCups 1 InsertSmallCups 2 SetPrice 10 Coin Sugar SmallCup Sugar Coffee Coin Sugar LargeCup Cancel Coin Sugar LargeCup Coin Coffee InsertLargeCups 1 Coin Sugar Cancel InsertSmallCups 1 Dispose

Test#18: InsertLargeCups 1 SetPrice 50 Coin Coin Sugar SmallCup LargeCup Coffee InsertLargeCups 1 Coin Coin Sugar Sugar LargeCup SmallCup Cancel Coin Dispose

Test#19: InsertSmallCups 1 SetPrice 50 Coin Coin Sugar Sugar SmallCup Coffee InsertSmallCups 1 Coin Coin Cancel InsertLargeCups 2 Coin Coin Cancel Coin Dispose

Test#20: InsertLargeCups 3 SetPrice 10 Coin LargeCup Sugar Sugar Coffee InsertSmallCups 3 Coin Sugar SmallCup Coffee SetPrice 51 Dispose

Test#21: SetPrice 10 InsertLargeCups 1 Coin LargeCup Coffee InsertLargeCups 1 SetPrice 50 InsertLargeCups 3 Coin Coin LargeCup Coffee Coin Coin LargeCup Sugar Coffee Coin InsertSmallCups 3 Coin SmallCup Coffee Coin Dispose

Test#22: InsertSmallCups 3 InsertLargeCups 3 SetPrice 10 Coin Sugar LargeCup Coffee InsertLargeCups 3 Coin Sugar LargeCup Coffee SetPrice 50 Coin Coin Sugar SmallCup Coffee Coin SmallCup Coffee Dispose

Test#23: InsertSmallCups 3 InsertLargeCups 3 SetPrice 10 Coin LargeCup Coffee SetPrice 8 Coin LargeCup Coffee Coin SmallCup Sugar Coffee InsertSmallCups 3 Dispose

Test#24: SmallCup LargeCup Sugar Coffee InsertLargeCups 0 InsertLargeCups -1 InsertSmallCups 0 InsertSmallCups -1 SetPrice 0 SetPrice -1 Cancel Coin Dispose

Test#25: SetPrice 10 Coin LargeCup Coffee SmallCup Coffee InsertLargeCups 2 InsertSmallCups 3 SetPrice 2 Dispose Cancel Dispose

Test#26: SetPrice 10 InsertLargeCups 2 Coin Coffee Cancel Dispose

Test#27: SetPrice 10 InsertSmallCups 2 Coin Coffee Cancel Dispose

Test#28: SetPrice 10 Coin Sugar LargeCup Coffee SmallCup Coffee InsertLargeCups 2 InsertSmallCups 2 Dispose SetPrice 2 Cancel Dispose

Test#29: SetPrice 10 InsertLargeCups 2 Coin Sugar Coffee InsertLargeCups 1 Cancel Dispose

Test#30: SetPrice 10 InsertSmallCups 2 Coin Sugar Coffee InsertSmallCups 1 Cancel Dispose

Test#31: SetPrice 10 InsertSmallCups 1 Coin SmallCup Coffee SmallCup LargeCup Sugar Coffee InsertLargeCups 1 InsertSmallCups 0 InsertSmallCups -1 SetPrice 2 Dispose Cancel InsertSmallCups 2 Dispose

Test#32: SetPrice 10 InsertLargeCups 1 Coin LargeCup Coffee SmallCup LargeCup Sugar Coffee InsertLargeCups 0 InsertLargeCups -1 InsertSmallCups 2 SetPrice 2 Cancel Dispose InsertLargeCups 2 Dispose

Test#33: SetPrice 10 InsertSmallCups 2 Coin Sugar Coin SmallCup Coffee Coin SmallCup Coffee InsertSmallCups 2 Dispose

Test#34: SetPrice 10 InsertLargeCups 2 Coin Sugar LargeCup Coffee Coin LargeCup Coffee InsertLargeCups 2 Coin Cancel Dispose

Test#35: SetPrice 10 InsertLargeCups 1 Coin Sugar LargeCup Coffee InsertLargeCups 2 Coin LargeCup Coffee Dispose

Test#36: SetPrice 50 InsertSmallCups 1 Coin Coin SmallCup Sugar Coffee InsertSmallCups 2 Coin Coin SmallCup Coffee Dispose

Test#37: SetPrice 10 InsertLargeCups 3 InsertSmallCups 1 Coin Sugar Sugar Sugar SmallCup Coffee InsertSmallCups 3 Coin Sugar Cancel Dispose

Test#38: InsertSmallCups 3 Coin SetPrice 10 Coin Coffee Dispose Cancel Dispose

Test#39: InsertLargeCups 3 SetPrice 10 Coin Coffee SmallCup Coffee Cancel SmallCup LargeCup Dispose

Test#40: SetPrice 10 InsertSmallCups 2 InsertLargeCups 1 Sugar Coin Sugar Coffee SmallCup Coffee Coin Sugar Coffee InsertSmallCups 3 InsertLargeCups 3 Cancel Dispose

Test#41: SetPrice 10 InsertLargeCups 0 InsertSmallCups 0 Cancel Coffee InsertLargeCups 2 Coin SetPrice 20 SmallCup Coffee Sugar Coffee SetPrice 0 Cancel Dispose

Test#42: SetPrice 0 SetPrice 10 InsertSmallCups 1 Coin LargeCup Coffee Sugar Coffee SmallCup Coffee InsertSmallCups 0 InsertSmallCups 2 Dispose

Test#43: SetPrice 10 InsertLargeCups 1 Coin LargeCup Coffee InsertLargeCups 0 InsertLargeCups 1 Dispose

\$\$ \$\$

5. Execution of the test cases

a. Transition Pair related Test cases:

On executing the test cases, the events/ methods were completed successfully with the return value 1 indicating the transition pairs were successful and the logic of code matches with the EFSM. Since EFSM is the expected behavior, we can say it is producing correct result.

Test #1 : Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

20

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #2: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

20

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()

- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #3: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

20

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #4: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()

1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

7
SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

20

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0
Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1
SmallCup() Method
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
RETURN COIN
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4
Coffee() Method
DISPOSE SMALL CUP OF COFFEE WITH SUGAR
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #5: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

20

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #6: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #7: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

100

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

12

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #8: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()

4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

100

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

7
SetPrice(int p) Method
Enter the value of parameter p, i.e Price value
12

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

7
SetPrice(int p) Method
Enter the value of parameter p, i.e Price value
10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0
Coin() Method
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8
Cancel() Method
RETURN COINS

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
RETURN COIN

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
RETURN COIN
The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #9: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()

- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1
SmallCup() Method
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
RETURN COIN
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3
Sugar() Method
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8
Cancel() Method
RETURN COINS
The value returned by the method is: 1

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9

Dispose() Method
SHUT DOWN
The value returned by the method is: 1

Test #10: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option
7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #11: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

26

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4
Coffee() Method
DISPOSE LARGE CUP OF COFFEE
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5
InsertLargeCups(int n) Method
Enter the value of parameter n, i.e Number of Large cups required
1
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

6
InsertSmallCups(int n) Method
Enter the value of parameter n, i.e Number of small cups required
1
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()

1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

7
SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

100

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #12: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

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Vending Machine Menu

0. Coins()

1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

51

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

1
SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #13: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

25

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()

- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method
RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #14: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #15: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

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Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
RETURN COIN

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8
Cancel() Method
RETURN COINS

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5
InsertLargeCups(int n) Method
Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State

q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

```
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
```

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

9
Dispose() Method
SHUT DOWN

The value returned by the method is: 1

Test #16: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()

4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State

q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1
SmallCup() Method
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
RETURN COIN
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4
Coffee() Method
DISPOSE SMALL CUP OF COFFEE
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

20

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #17: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()

- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #18: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

50

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()

9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9
Dispose() Method
SHUT DOWN

The value returned by the method is: 1

Test #19: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

50

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()

```
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

0

Coin() Method

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
```

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5
InsertLargeCups(int n) Method
Enter the value of parameter n, i.e Number of Large cups required

2
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0
Coin() Method
The value returned by the method is: 1

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
The value returned by the method is: 1

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State

q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #20: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()

9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

51

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #21: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

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Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

50

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0
Coin() Method
The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #22: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

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Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

50

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4
Coffee() Method
DISPOSE SMALL CUP OF COFFEE
The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #23: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

8

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

b. Default Transition related Test cases:

On executing the test cases, the events/ methods were completed successfully with the return value 0 indicating the default transitions had no change of state and no actions are performed. The private variables value prior to execution of default transitions and post execution of default transitions were compared. In this case, the value remains same and additionally x value also indicates here that the state is not changed. The logic of code matches with the EFSM. Since EFSM is the expected behavior, we can say it is producing correct result.

Test #24: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

b

State :

idle

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()

9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

0

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

-1

The value returned by the method is: 0

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

0

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

-1

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()

```
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

0

The value returned by the method is: 0

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

-1

The value returned by the method is: 0

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
```

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

a
Show_variables() Method
x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8

Cancel() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 0, k1 = 0, k = 0, t = 0, s = 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #25: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

b

State :

coins inserted

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()

- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State

q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

a
Show_variables() Method
x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

2

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

a
Show_variables() Method
x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9

Dispose() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 2, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

b

State :

coins inserted

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #26: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

b

State :

coins inserted

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 2, w = 10, k1 = 2, k = 0, t = 0, s = 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a

Show_variables() Method
x = 2, w = 10, k1 = 2, k = 0, t = 0, s = 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8

Cancel() Method
RETURN COINS
The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 10, k1 = 2, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #27: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

b

State :

coins inserted

Enter the next option

- 0. Coins()
- 1. SmallCup()

```
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

a

```
Show_variables() Method
x = 2, w = 10, k1 = 0, k = 2, t = 0, s = 0
```

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

a

```
Show_variables() Method
x = 2, w = 10, k1 = 0, k = 2, t = 0, s = 0
```

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

b
State :
coins inserted

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 10, k1 = 0, k = 2, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #28: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()

```
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

b

State :
sugar

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

a
Show_variables() Method
x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

a
Show_variables() Method
x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9

Dispose() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

2

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #29: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()

- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

b

State :

sugar

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 2, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State

q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 2, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 3, w = 10, k1 = 2, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 1, w = 10, k1 = 2, k = 0, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #30: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

b

State :
sugar

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 2, t = 0, s = 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 2, t = 0, s = 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 3, w = 10, k1 = 0, k = 2, t = 0, s = 0

Enter the next option

- 0. Coins()

```
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

a

Show_variables() Method

x = 1, w = 10, k1 = 0, k = 2, t = 0, s = 0

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #31: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
```

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1
SmallCup() Method
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4
Coffee() Method
DISPOSE SMALL CUP OF COFFEE
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

b
State :
no small cups

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3
Sugar() Method
The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

0

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

-1

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

2

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8
Cancel() Method
The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 4, w = 10, k1 = 0, k = 0, t = 0, s = 2

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6
InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 1, w = 10, k1 = 0, k = 2, t = 0, s = 2

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #32: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

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Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4
Coffee() Method
DISPOSE LARGE CUP OF COFFEE
The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

b
State :
no large_cups

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()

9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

a

Show_variables() Method

x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

a
Show_variables() Method
x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5
InsertLargeCups(int n) Method
Enter the value of parameter n, i.e Number of Large cups required
0

The value returned by the method is: 0

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option
a
Show_variables() Method
x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State

q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

-1

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a
Show_variables() Method
x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

7
SetPrice(int p) Method
Enter the value of parameter p, i.e Price value
2

The value returned by the method is: 0

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option
a
Show_variables() Method
x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1

Enter the next option
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8
Cancel() Method
The value returned by the method is: 0

Enter the next option
0. Coins()

```
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

a

```
Show_variables() Method
x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1
```

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

9

Dispose() Method

The value returned by the method is: 0

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

```
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver
```

a

```
Show_variables() Method
x = 5, w = 10, k1 = 0, k = 0, t = 0, s = 1
```

Enter the next option

```
0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()
```

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

a

Show_variables() Method

x = 1, w = 10, k1 = 2, k = 0, t = 0, s = 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

c. Multiple condition related Test cases:

On executing the test cases, every multiple conditions/branches within the code are traversed and all the events/ methods were completed successfully which is as expected in the EFSM. The private variables value before execution and after execution of events is recorded and have already been posted in multiple condition section. The logic of code matches with the EFSM. Since EFSM is the expected behavior, we can say it is producing correct result.

Test #33: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()

3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #34: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

RETURN COIN

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #35: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()

9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #36: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

50

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method
DISPOSE SMALL CUP OF COFFEE
The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method
SHUT DOWN

The value returned by the method is: 1

Test #37: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()

1. SmallCup()

2. LargeCup()

3. Sugar()

4. Coffee()

5. InsertLargeCups(int n)

6. InsertSmallCups(int n)

7. SetPrice(int p)

8. Cancel()

9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State

q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)

6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #38: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()

5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9
Dispose() Method
SHUT DOWN

The value returned by the method is: 1

Test #39: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()

4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #40: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

3

Sugar() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()

3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()

1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

3

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()

9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

3

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #41: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

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Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)

8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

0

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

0

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)

7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

8

Cancel() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

2

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables

b. Current_State
q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

20

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

0

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()

4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods
a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

8

Cancel() Method

RETURN COINS

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #42: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

0

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

1

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

3

Sugar() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

The value returned by the method is: 0

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

1

SmallCup() Method

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE SMALL CUP OF COFFEE WITH SUGAR

The value returned by the method is: 1

Enter the next option

0. Coins()
1. SmallCup()
2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

0

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

6

InsertSmallCups(int n) Method

Enter the value of parameter n, i.e Number of small cups required

2

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

9

Dispose() Method

SHUT DOWN

The value returned by the method is: 1

Test #43: Results produced in VendingMachine class is correct result, i.e. it is as provided in EFSM

CS 589 FALL 2023 PROJECT

Vending Machine Menu

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Kindly select one of the options from the Menu

7

SetPrice(int p) Method

Enter the value of parameter p, i.e Price value

10

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

0

Coin() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

2

LargeCup() Method

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

4

Coffee() Method

DISPOSE LARGE CUP OF COFFEE

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

0

The value returned by the method is: 0

Enter the next option

- 0. Coins()
- 1. SmallCup()
- 2. LargeCup()
- 3. Sugar()
- 4. Coffee()
- 5. InsertLargeCups(int n)
- 6. InsertSmallCups(int n)
- 7. SetPrice(int p)
- 8. Cancel()
- 9. Dispose()

Testing-related methods

- a. Show_variables
- b. Current_State
- q. Quit Vending Machine class driver

Enter the next option

5

InsertLargeCups(int n) Method

Enter the value of parameter n, i.e Number of Large cups required

1

The value returned by the method is: 1

Enter the next option

- 0. Coins()
- 1. SmallCup()

2. LargeCup()
3. Sugar()
4. Coffee()
5. InsertLargeCups(int n)
6. InsertSmallCups(int n)
7. SetPrice(int p)
8. Cancel()
9. Dispose()

Testing-related methods

a. Show_variables
b. Current_State
q. Quit Vending Machine class driver

Enter the next option

9
Dispose() Method
SHUT DOWN

The value returned by the method is: 1

6. List of Failed Test case

There were no failed test cases. Only non-executable cases were present, which has been recorded separately within each section of the testing with the reasoning.

Conclusion:

As part of this project, I have performed Transition Pair testing, Default Transition Testing, and multiple condition testing and executed all the test cases. These test cases were validated using testing-oriented methods the with help of the TestDriver class and by analyzing through EFSM diagram and through all this, we can conclude that the VendingMachine class behavior is as expected as the EFSM.