VENDING SYSTEM MACHINE

LECTURER : DR AMRAN BIN AHMAD

MADE BY :
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INPUT & PROCESS

```java
public double subTotal;
public static double runningTotal;
private static double itemPrice;
static boolean ordering = true;
static Scanner input = new Scanner(System.in);


public static void menu() {
System.out.println("------------------------------------------");
System.out.println("------------VENDING MACHINE UUM------------");
System.out.println("------------------------------------------");
System.out.println();
    System.out.println("Welcome \n1. Nabati (RM2.00) \n2. Kitkat (RM3.00)\n3. Maggi (RM 2.00) \n4. Mineral Water (RM 1.00) \n5. Coffee Latte (RM 3.00) \n6. White Coffee (RM 3.00)");
    System.out.print("Please choose product :");
}
    public static double itemPrice(int foodItem) {
    if (foodItem == 1) {
        System.out.println("NABATI");
        itemPrice = 2.00;
    }
    if (foodItem == 2) {
        System.out.println("KITKAT");
        itemPrice = 3.00;
    }
    if (foodItem == 3) {
        System.out.println("MAGGI");
        itemPrice = 2.00;
    }
    if (foodItem == 4) {
        System.out.println("MINERAL WATER");
        itemPrice = 1.00;
    }
    if (foodItem == 5) {
        System.out.println("COFFEE LATTE");
        itemPrice = 2.00;
    }
    if (foodItem == 6) {
        System.out.println("WHITE COFFEE");
        itemPrice = 2.00;
    }

    return itemPrice;
```
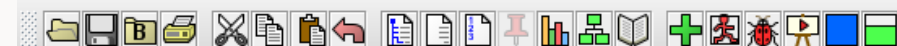
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```java
    public static double Quantity() {
        System.out.println("Enter quantity");
        double quantity = input.nextDouble();
        return quantity;
    }
    public static void main(String[] args) {
        int menuOption;
        int foodItem = 0;
        input = new Scanner(System.in);
        do {
            double runningTotal = 0;
            menu();
            menuOption = input.nextInt();
            switch (menuOption) {
            case 1:
                foodItem = 1;
                itemPrice(foodItem);
                break;
            case 2:
                foodItem = 2;
                itemPrice(foodItem);
                break;
            case 3:
                foodItem = 3;
                itemPrice(foodItem);
                break;
            case 4:
                foodItem = 4;
                itemPrice(foodItem);
                break;
            case 5:
                foodItem = 5;
                itemPrice(foodItem);
                break;
            case 6:
                foodItem = 6;
                itemPrice(foodItem);
                break;
            default:
                System.out.println("Invalid option.Please try again.");
                continue;
```

VENDINGMACHINEUUM2.java   VMS.java

Compile Messages   jGRASP Messages   Run I/O   Interactions

Status: running user program   Line:53   Col:1   Code:32   Top

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```java
        double subTotal = Quantity() * itemPrice;
        System.out.println("Total is : " + "RM " + subTotal);
        System.out.print("Please enter payment : RM");
          double payment = input.nextDouble();
          if (subTotal - payment < 0.00f){
            System.out.println("Thankyou, your balance are : RM"+ (payment-subTotal));
            System.out.println("Enjoy your meal");}
          else if (subTotal - payment > 0.00f){
            System.out.println("Insufficient payment of : RM"+ (subTotal - payment) + ". Please insert the amount needed.");
            double amount = input.nextDouble();
            System.out.println("Enjoy your meal.");
            continue;}
          else
            System.out.println("Enjoy your meal");

        } while (ordering);


        {
        }
    }
}
```
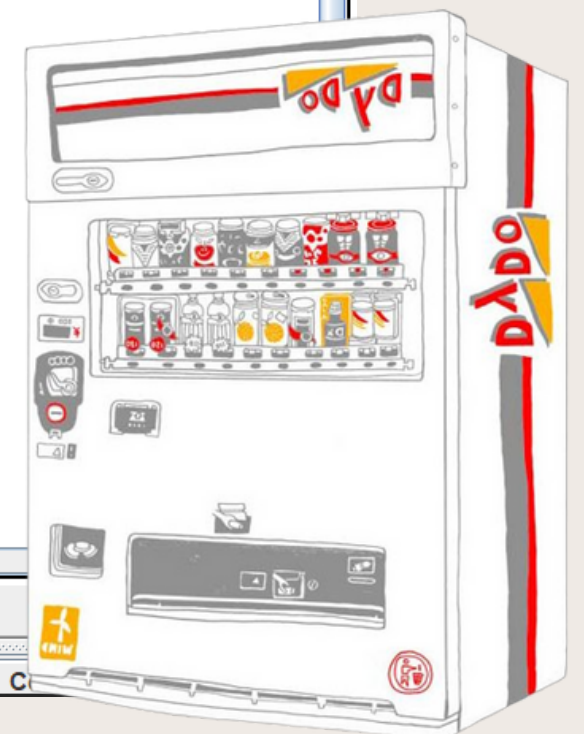
| VENDINGMACHINEUUM2.java | VMS.java |

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USER INTERFACE


```
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import java.util.Scanner;

VENDINGMACHINEUUM2.java          VMS.java

Compile Messages | jGRASP Messages | Run I/O | Interactions

    ----jGRASP exec: java VENDINGMACHINEUUM2
    ------------------------------------------
    ------------VENDING MACHINE UUM------------
    ------------------------------------------

    Welcome
    1. Nabati (RM2.00)
    2. Kitkat (RM3.00)
    3. Maggi (RM 2.00)
    4. Mineral Water (RM 1.00)
    5. Coffee Latte (RM 3.00)
    6. White Coffee (RM 3.00)
    Please choose product :1
    NABATI
    Enter quantity
    5
    Total is : RM 10.0
    Please enter payment : RM10
    Enjoy your meal
    ------------------------------------------
    ------------VENDING MACHINE UUM------------
    ------------------------------------------

    Welcome
    1. Nabati (RM2.00)
    2. Kitkat (RM3.00)
    3. Maggi (RM 2.00)
    4. Mineral Water (RM 1.00)
    5. Coffee Latte (RM 3.00)
    6. White Coffee (RM 3.00)
    Please choose product :

Status: running user program                    Line:53   Col:1   Code:32
```

USER INTERFACE


```
import java.util.Scanner;
```

VENDINGMACHINEUUM2.java   VMS.java

Compile Messages | jGRASP Messages | Run I/O | Interactions

```
        ----------------------------------------
        -----------VENDING MACHINE UUM-----------
        ----------------------------------------

        Welcome
        1. Nabati (RM2.00)
        2. Kitkat (RM3.00)
        3. Maggi (RM 2.00)
        4. Mineral Water (RM 1.00)
        5. Coffee Latte (RM 3.00)
        6. White Coffee (RM 3.00)
▶▶      Please choose product :4
        MINERAL WATER
        Enter quantity
▶▶      7
        Total is : RM 7.0
▶▶      Please enter payment : RM8
        Thankyou, your balance are : RM1.0
        Enjoy your meal
        ----------------------------------------
        -----------VENDING MACHINE UUM-----------
        ----------------------------------------

        Welcome
        1. Nabati (RM2.00)
        2. Kitkat (RM3.00)
        3. Maggi (RM 2.00)
        4. Mineral Water (RM 1.00)
        5. Coffee Latte (RM 3.00)
        6. White Coffee (RM 3.00)
▶▶      Please choose product :
```

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USER INTERFACE

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```
import java.util.Scanner;
```

VENDINGMACHINEUUM2.java   VMS.java

Compile Messages | jGRASP Messages | Run I/O | Interactions

```
        --------------------------------------
        -----------VENDING MACHINE UUM-----------
        --------------------------------------

        Welcome
        1. Nabati (RM2.00)
        2. Kitkat (RM3.00)
        3. Maggi (RM 2.00)
        4. Mineral Water (RM 1.00)
        5. Coffee Latte (RM 3.00)
        6. White Coffee (RM 3.00)
▶▶      Please choose product :6
        WHITE COFFEE
        Enter quantity
▶▶      3
        Total is : RM 6.0
▶▶      Please enter payment : RM3
        Insufficient payment of : RM3.0. Please insert the amount needed.
▶▶      3
        Enjoy your meal.
        --------------------------------------
        -----------VENDING MACHINE UUM-----------
        --------------------------------------

        Welcome
        1. Nabati (RM2.00)
        2. Kitkat (RM3.00)
        3. Maggi (RM 2.00)
        4. Mineral Water (RM 1.00)
        5. Coffee Latte (RM 3.00)
        6. White Coffee (RM 3.00)
▶▶      Please choose product :|
```

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USER INTERFACE


```
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import java.util.Scanner;
```

| VENDINGMACHINEUUM2.java | VMS.java |

| Compile Messages | jGRASP Messages | Run I/O | Interactions |

```
End
Clear
Help

-----------------------------------------
------------VENDING MACHINE UUM-----------
-----------------------------------------

Welcome
1. Nabati (RM2.00)
2. Kitkat (RM3.00)
3. Maggi (RM 2.00)
4. Mineral Water (RM 1.00)
5. Coffee Latte (RM 3.00)
6. White Coffee (RM 3.00)
►► Please choose product :0
Invalid option.Please try again.
-----------------------------------------
------------VENDING MACHINE UUM-----------
-----------------------------------------

Welcome
1. Nabati (RM2.00)
2. Kitkat (RM3.00)
3. Maggi (RM 2.00)
4. Mineral Water (RM 1.00)
5. Coffee Latte (RM 3.00)
6. White Coffee (RM 3.00)
►► Please choose product :
```
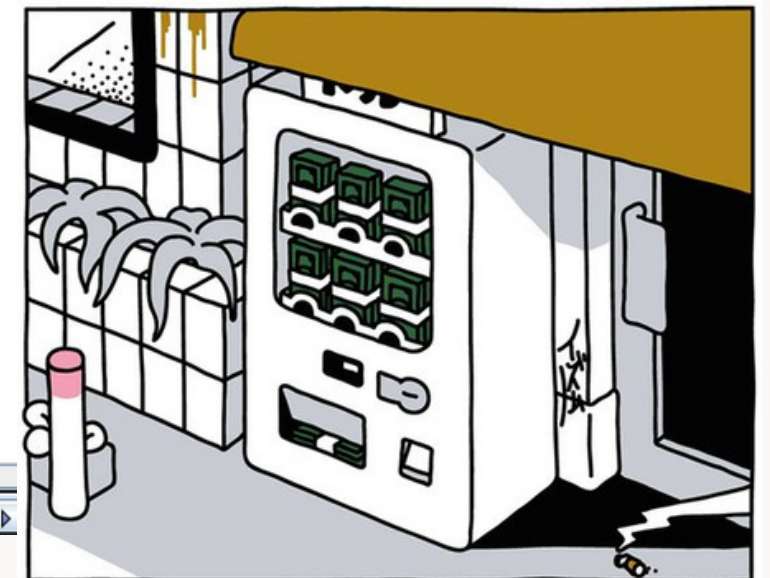
Status: running user program

THANK
YOU