CS-589 SOFTWARE TESTING AND ANALYSIS

PROJECT REPORT

Table of Contents

Introduction:	3
Model Based Testing:	3
Test cases for model Based Testing	
Multiple - Conditional Testing:	7
Test cases for multiple condition testing	10
Testing Default (Ghost) Transitions:	11
Test Cases for Ghost Transitions Testing	
Test Suit	12
Execution of the test suite	14
Transition Pair Testing:	14
Multiple Condition Testing:	71
Ghost Transtion Testing	114
Source code of the GasPump class with testing oriented methods	145
Testing related methods	
GasPump class source code	145
TestDriver for gasPump class	153
Conclusion	158

Introduction:

The basic goal of this project is to design test cases for class and model based testing. The EFSM and GasPump.java class has been provided and based on them I am performing transition pair, multipltcondition testing and ghost transition testing.

This project will give me a perfect way to implement the knowledge which we got in CS 589 class.

Model Based Testing:

Transition Pair Testing:

In transition pair testing all transition pairs must be traversed at least once. The pair are constructed between input and output actions for each state.

State 0

I/P -→ T1,T3,T14,T13,T5,T19 $O/P \rightarrow T2,T20,T6$ State 1 I/P → T18, T17 $O/P \rightarrow T17, T16$ State 2 $I/P \rightarrow T2$ O/P → T3,T4 State 3 $I/P \rightarrow T4, T6$ O/P → T5, T15, T7, T8 State 4 $I/P \rightarrow T7, T8, T15$ $O/P \rightarrow T9, T18, T19$ State 5 $I/P \rightarrow T10, T9$ $O/P \rightarrow T10$, T11, T12State 6 $I/P \rightarrow T12, T11, T16$

 $O/P \rightarrow T14, T13$

Transition Pairs

SO

T1,T2	Test#1	
T1,T20	Test #8	
T1,T6	Test #4	
T3, T2	Test #10	
T3, T20	Test #1	
T3, T6	Test #9	
T14 , T2	Test #10	
T14, T20	Test # 7	
T14, T6	Test #12	
T13, T2	Test #13	
T13, T20	Test # 6	
T13, T6	Test #11	
T5 , T2	Test #4	
T5,T20	Test #2	
T5,T6	Test #14	
T19,T2	Test #14	
T19,T20	Test #3	
T19,T6	Test #16	
S1		
T18, T17	Test #10	
	ı	

T18, T17	Test #10
T18, T16	Test #11
T17, T17	Test #10
T17, T16	Test #10

S2

T2,T3	Test #1
T2,T4	Test #2

S3

T4 , T5	Test #2
T4, T15	Test #3
T4, T7	Test #4
T4,T8	Test # 5
T6, T5	Test #4
T6,T15	Test # 6
T6,T7	Test #9
T6,T8	Test # 7

<u>S4</u>

T7,T9	Test #9
T7,T18	Test #10
T7,T19	Test #4
T8,T9	Test # 7
T8,T18	Test #11
T8,T19	Test # 5
T15,T9	Test # 6
T15,T18	Test #12
T15,T19	Test #3

S5

T10,T10	Test # 6
T10,T11	Test # 6
T10,T12	Test #13
T9,T10	Test # 6
T9,T11	Test #15
T9,T12	Test # 7

S6

T12,T14	Test # 7
T12,T13	Test #13
T11,T14	Test #9
T11,T13	Test # 6
T16,T14	Test #10
T16,T13	Test #11

Test cases for model Based Testing

Test#1 Test#2 Test #3	Activate(4.0,5.2,6.0), PayCredit(), Reject(), TurnOff() Activate(4.0,5.9,6.0), PayCredit(), Approved(), Cancel(), TurnOff() Activate(4.2,5.2,6.2), PayCredit(), Approved(), Diesel(), Cancel(), TurnOff() Activate(4.0,5.0,6.0), PayCash(3.0), Cancel(), PayCredit(), Approved(), Regular(), Cancel(), TurnOff()
	Activate(4.2,5.2,6.2), PayCredit(), Approved(), Diesel(), Cancel(), TurnOff() Activate(4.0,5.0,6.0), PayCash(3.0), Cancel(), PayCredit(), Approved(), Regular(),
Test #3	Activate(4.0,5.0,6.0), PayCash(3.0), Cancel(), PayCredit(), Approved(), Regular(),
Test #4	Cancel(), TurnOff()
Test # 5	Activate(4.2,5.2,6.2), PayCredit(), Approved(), Super(), Cancel(), Turnoff()
Test # 6	Activate(4.0,5.0,6.0), PayCash(12.0), Diesel(), StartPump(), PumpLiter(), PumpLiter(),
	StopPump(), Reciept(), TurnOff()
Test # 7	Activate(4.0,5.0,6.0), PayCash(2.0), Super(), StartPump(), PumpLiter(), NoReciept(),
	TurnOff()
Test #8	Activate(4.0,5.0,6.0), TurnOff()
Test #9	Activate(4.0,5.0,6.0), PayCredit(), Reject(), PayCash(10.0), Regular(), StartPump(),
	PumpLiter(), StopPump(), NoReceipt(), TurnOff()
Test #10	Activate(4.0,5.0,6.0), PayCredit(), Reject(), PayCredit(), Approved(), Regular(),
	StartPump(), PumpLiter(), PumpLiter(), StopPump(), NoReceipt(), PayCredit(),
	Reject(),TurnOff()
Test #11	Activate(4.0,5.0,6.0), PayCredit(), Approved(), Super(), StartPump(), StopPump(),
	Reciept(),PayCash(3.0),Cancel(), TurnOff()
Test #12	Activate(4.0,5.0,6.0), PayCredit(), Approved(), Diesel(), StartPump(), StopPump(),
	NoReciept(),PayCash(3.0),Cancel(), TurnOff()
Test #13	Activate(4.0,5.0,6.0), PayCash(11.0), Diesel(), StartPump(), PumpLiter(), PumpLiter(),
	Reciept(),PayCredit(), Reject(), TurnOff()
Test #14	Activate(4.0,5.0,6.0), PayCash(12.0), Cancel(), PayCash(5.0), Super(), Cancel(),
	PayCredit(), Reject(), TurnOff()
Test #15	Activate(4.0,5.0,6.0), PayCash(12.0), Diesel(), StartPump(), StopPump(), NoReceipt(),
	TurnOff()
Test #16	Activate(4.0,5.0,6.0), PayCash(12.0), Regular(), Cancel(), PayCash(18.0), Cancel(),
	TurnOff()
	TurnOff() Activate(4.0,5.0,6.0), PayCash(12.0), Regular(), Cancel(), PayCash(18.0), Cancel(),

Multiple - Conditional Testing:

Testing conditions with complex predicates. I will be testing all the combinations of predicates

1.Activate

k == -1	a>0	b>0	d>0	Test Case
Т	Т	Т	Т	Test#17
Т	Т	Т	F	Test#17
Т	Т	F	Т	Test#17
Т	T	F	F	Test#17
Т	F	Т	Т	Test#17
Т	F	T	F	Test#17
Т	F	F	T	Test#17
Т	F	F	F	Test#17
F	T	Т	Т	Test #18
F	Т	Т	F	Test #18
F	Т	F	Т	Test #18
F	Т	F	F	Test #18
F	F	Т	Т	Test #18
F	F	Т	F	Test #18
F	F	F	Т	Test #18
F	F	F	F	Test #18

2.Pay Credit

k==0	Test Case
Т	Test#17
F	Test #19

3.Reject

k==2	Test Case
Т	Test#17
F	Test #20

4.Cancel

k==3	k==4	Test Case
Т	Т	Impossible
Т	F	Test #18
F	Т	Test #20
F	F	Test #21

Justifaction 1 - The value of k is either 3 or 4 but can never be both at a same time.

w==0	Test Case
Т	Test #18
F	Test #20

5.Approved

k==2	Test case
Т	Test #20
F	Test #21

6.PayCash

k==0	c>0	Test Case
Т	Т	Test #18
Т	F	Test #19
F	Т	Test #22
F	F	Test #22

7.Regular

k==3	Test case	
Т	Test #19	
F	Test #21	

8.Super

k==3	Test case
Т	Test #21
F	Test #21

9.Diesel

k==3	Test case
Т	Test #20
F	Test #21

10.Start Pump

k==4	Test case
Т	Test #19
F	Test #22

11.PumpLiter

k==5	Test case
Т	Test #19
F	Test #22

w==1	cash>=price*(L+1)	w==0	Test Case
Т	Т	Т	Impossible
Т	Т	F	Impossible
Т	F	Т	Impossible
T	F	F	Test #22
F	Т	Т	Test #19
F	Т	F	Impossible
F	F	Т	Test #23
F	F	F	Impossible

Justification 2 - w can be 0 or 1 but not both at the same time

Justification 3 – we have value of some cash present so w has to be 0 not 1

Justification 4 – w can be 0 or 1 but not both at the same time

Justification 5 – w has to have a value, specifically w should be 0 as some cash is there

Justification 6 – w has to have some value, specifically it should be 1 as there is not cash so its paid by credit

w==0	cash <price*(l+1)< th=""><th>Test Case</th></price*(l+1)<>	Test Case
T	Т	Test #19
Т	F	Impossible
F	T	Impossible
F	F	Impossible

Justification 7 - w is zero , so its pay by cash and cash has to be greater than price and if that is the case if the program will never come to this branch.

Justification 8 – as some cash is presnt, w can never be 1

Justification 9 - as it's a paycash scenario w has to be 1

w==0	total <cash< th=""><th>Test Case</th></cash<>	Test Case
Т	Т	Test #19
Т	F	Test #24
F	Т	Impossible
F	F	Impossible

Justification 10 – It paycash scenario so w has be equal to 0 and total cant be less than cash **Justification 11 -** It paycash scenario so w has be equal to 0

12.Stop Pump

k==5	Test case
Т	Test #22
F	Test #19

w==0	total <cash< th=""><th>Test Case</th></cash<>	Test Case
Т	Т	Test #25
Т	F	Test #26
F	Т	Impossible
F	F	Test #22

Justification 12 – It is a PayCash scenario so w has to be equal to zero and total can never be less than cash

13.No Receipt

k==6	Test case
Т	Test #22
F	Test #24

14.Receipt

k==6	Test case
Т	Test #19
F	Test #24

15.TurnOff

k==0	Test case
Т	Test #19
F	Test #22

Test cases for multiple condition testing

Test #17	Activate(4.0,6.0,-3.0), Activate(4.0,-6.0,3.0), Activate(4.0,-6.0,-3.0),
	Activate(-4.0,6.0,3.0), Activate(-4.0,6.0,-3.0), Activate(-4.0,-6.0,3.0),
	Activate(-4.0,-6.0,-3.0), Activate(4.0,6.0,3.0), PayCredit(), Reject(), TurnOff()
Test #18	Activate(4.0,6.0,3.0),PayCash(10.0),cancel(),Activate(4.0,6.0,3.0),
	Activate(4.0,6.0,-3.0), Activate(4.0,-6.0,3.0), Activate(4.0,-6.0,-3.0),
	Activate(-4.0,6.0,3.0), Activate(-4.0,6.0,-3.0), Activate(-4.0,-6.0,3.0),
	Activate(-4.0,-6.0,-3.0),TurnOff()
Test #19	Activate(4.0,6.0,3.0), PayCash(-10), PayCash(4.5), PayCredit(), Regular(), StartPump(),
	PumpLiter(),StopPump(),Reciept(), TurnOff()
Test #20	Activate(4.0,6.0,3.0),Reject(),PayCredit(),Approved(),Diesel(),Cancel(),TurnOff()
Test #21	Activate(4.0,6.0,3.0), Approved(), PayCredit(), Cancel(), Approved(), Super(),
	Regular(), Diesel(), Cancel(), TurnOff()
Test #22	Activate(4.0,6.0,3.0),PayCredit(),PayCash(-5), PayCash(5), Approved(), Diesel(),
	PumpLiter(),StartPump(),PumpLiter(),StartPump(),StopPump(),TurnOff(),
	NoReciept(), TurnOff()
Test #23	Activate(4.0,6.0,3.0), PayCash(1.0), Regular(), StartPump(), Pumpliter(), Reciept(),
	TurnOff()
Test #24	Activate(4.0,6.0,3.0), Receipt(), NoReceipt(), PayCash(7.0), Super(), StartPump(),
	Pumpliter(), Pumpliter(), NoReciept(), TurnOff()
Test #25	Activate(4.0,6.0,3.0), PayCash(30.0), Regular(), StartPump(), Pumpliter(),
	StopPump(), Reciept(), TurnOff()
Test #26	Activate(4.0,6.0,3.0), PayCash(4.0), Regular(), StartPump(), Pumpliter(),
	StopPump(), Reciept(), TurnOff()

Testing Default (Ghost) Transitions:

When the default/ghost transitions are executed there is no change in the state and no action is performed.

STATE	Normal	Ghost Transition	TEST #
S0	TurnOff() PayCredit() PayCash(c)[c>0]	Activate(a,b,d),Reject(), Approved(), Cancel(), Paycash(-c), Regular(), Super(), Diesel(), StartPump(), PumpLiter(), StopPump(), NoReceipt(), Receipt(),	Test #27
S1	PumpLiter() StopPump()	StartPump(), Activate(a,b,d), PayCredit(), Reject(), Cancel(), Approved(), TurnOff(), Regular(), Super(), Diesel(), PayCash(c), Receipt(), NoReceipt(),	Test #29
S2	Reject() Approved()	PayCredit(), Activate(a,b,d), Super(), Diesel(), StartPump(), Cancel(), Paycash(c), Regular(),PumpLiter(), StopPump(), NoReceipt(), Receipt(),TurnOff(),	Test #27
S3	Diesel() Super() Regular() Cancel()	Activate(a,b,d), PayCredit(), PayCash(c), StartPump(), PumpLiter(), StopPump(), Receipt(), NoReceipt(), TurnOff(), Reject(), Approved()	Test #28
S4	StartPump() Cancel()	Activate(a,b,d), Approved(), PayCredit(), PayCash(c), PumpLiter(), StopPump(), StartPump(w!=1&&w!=0)Receipt(), NoReceipt(), TurnOff(), Regular(), Super(), Diesel(), Reject(),	Test #28
S5	PumpLiter() StopPump()	Activate(a,b,d), PayCash(c), Regular(), Super(), Diesel(), PayCredit(), Reject(), Cancel(), Approved(), Receipt(), NoReceipt(), TurnOff(), Startpump(), PumpLiter(1- [{cash>=price*(L+1)} or {cash <pri>cash<pri>cash</pri></pri>	Test #30
S6	NoReceipt() Receipt()	Activate(a,b,d), PayCredit(), Reject(), Cancel(), Approved(),TurnOff(), Startpump(), PumpLiter(), StopPump(),PayCash(c), Regular(),Super(),Diesel(),	Test #29
Start	Activate(a,b,d)	PayCredit(), Reject(), Cancel(), Approved(), PayCash(c), PumpLiter(), StopPump(),NoReceipt() ,Receipt(), TurnOff(),Regular(),Super(),Diesel(), Startpump(),	Test #31

Test Cases for Ghost Transitions Testing

Test Cases for Officer framsitions resting				
Test #27	State SO,	Activate(4.0,6.0,3.0), Activate(4.0,6.0,3.0), Reject(), Approved(),		
	S2	Cancel(), Paycash(-5), Regular(), Super(), Diesel(), StartPump(),		
		PumpLiter(), StopPump(), NoReceipt(), Receipt(),		
		PayCredit(), PayCredit(), Activate(4.0,6.0,3.0), Cancel(), Paycash(5),		
		Regular(), Super(), Diesel(), StartPump(), PumpLiter(), StopPump(),		
		NoReceipt(), Receipt(), TurnOff(), Reject(), TurnOff()		
Test #28	State S3,	Activate(4.0,6.0,3.0), PayCredit(), Approved(),		
	S4	Activate(4.0,6.0,3.0),Reject(), PayCredit(), Approved(), Paycash(5),		
		StartPump(), PumpLiter(), StopPump(), NoReceipt(),		
		Receipt(),TurnOff(), Regular(),Activate(4.0,6.0,3.0),		
		PayCredit(), Reject(), Approved(), Paycash(5), Regular(), Super(),		
		Diesel(),PumpLiter(), StopPump(), NoReceipt(),		
		Receipt(),TurnOff(),Cancel(), TurnOff()		
Test #29	State S1,	Activate(4.0, 6.0, 3.0), PayCredit(), Approved(), Super(),		
	S6	StartPump(), Activate(4.0,6.0,3.0), PayCredit(), Reject(), Cancel(),		
		Approved(), Paycash(5), Regular(), Super(), Diesel(),		
		StartPump(),NoReceipt(), Receipt(),TurnOff(),		
		StopPump(),Activate(4.0,6.0,3.0), PayCredit(),Reject(), Cancel(),		
		Approved(), Paycash(5), Regular(), Super(), Diesel(),		
		StartPump(),PumpLiter(), StopPump(),TurnOff(),Receipt(), TurnOff()		
Test #30	State S5	Activate(4.0,6.0,3.0),PayCash(4),Regular(),StartPump(),StartPump(),		
		Regular(), Super(), Diesel(), PayCredit(), PayCash(4), Approved(),		
		Reject(), Cancel(), NoReceipt(), Receipt(), TurnOff(), Activate(2,3,4)		
		StopPump(), NoReceipt(),TurnOff()		
Test #31	Start	PayCredit(), Reject(), Cancel(), Approved(), PayCash(5),		
		Regular(),Super(),Diesel(), Startpump(), PumpLiter(),		
		StopPump(), NoReceipt(), Receipt(), TurnOff(), Activate(4.0,6.0,3.0),		
1		PayCredit(), Reject(), TurnOff()		

Test Suit

The created test suite has passed the test suite checker and TS.txt file is given for further evaluation and reference. Test cases are refered with same numbers in the whole document.

Test#1: Activate 4.0 5.2 6.0 PayCredit Reject TurnOff

Test#2: Activate 4.0 5.9 6.0 PayCredit Approved Cancel TurnOff

Test#3: Activate 4.2 5.2 6.2 PayCredit Approved Diesel Cancel TurnOff

Test#4: Activate 4.0 5.0 6.0 PayCash 3.0 Cancel PayCredit Approved Regular Cancel TurnOff

Test#5: Activate 4.2 5.2 6.2 PayCredit Approved Super Cancel TurnOff

Test#6: Activate 4.0 5.0 6.0 PayCash 12.0 Diesel StartPump PumpLiter PumpLiter StopPump Receipt TurnOff

Test#7: Activate 4 5 6 PayCash 2 Super StartPump PumpLiter NoReceipt TurnOff

Test#8: Activate 4 5 6 TurnOff

Test#9: Activate 4 5 6 PayCredit Reject PayCash 10 Regular StartPump PumpLiter StopPump NoReceipt TurnOff

Test#10: Activate 4 5 6 PayCredit Reject PayCredit Approved Regular StartPump PumpLiter PumpLiter StopPump NoReceipt PayCredit Reject TurnOff

Test#11: Activate 4 5 6 PayCredit Approved Super StartPump StopPump Receipt PayCash 10 Cancel TurnOff

Test#12: Activate 4 5 6 PayCredit Approved Diesel StartPump StopPump NoReceipt PayCash 10 Cancel TurnOff

Test#13: Activate 4 5 6 PayCash 11 Diesel StartPump PumpLiter PumpLiter Receipt PayCredit Reject TurnOff

Test#14: Activate 4 5 6 PayCash 12 Cancel PayCash 5 Super Cancel PayCredit Reject TurnOff

Test#15: Activate 4 5 6 PayCash 12 Diesel StartPump StopPump NoReceipt TurnOff

Test#16: Activate 4 5 6 PayCash 12 Regular Cancel PayCash 12 Cancel TurnOff

Test#17: Activate 4.0 6.0 -3.0 Activate 4.0 -6.0 3.0 Activate 4.0 -6.0 -3.0 Activate -4.0 6.0 3.0 Activate -4.0 6.0 -3.0 Activate -4.0 -6.0 3.0 Activate -4.0 -6.0 -3.0 Activate 4.0 6.0 3.0 PayCredit Reject TurnOff

Test#18: Activate 4 5 6 PayCash 12 Cancel Activate 4 5 6 Activate 4.0 6.0 -3.0 Activate 4.0 -6.0 3.0 Activate 4.0 -6.0 -3.0 Activate -4.0 6.0 3.0 Activate -4.0 -6.0 -3.0 Activate -4.0 -6.0 -3.0 TurnOff

Test#19: Activate 4 6 3 PayCash -10 PayCash 4.5 PayCredit Regular StartPump PumpLiter StopPump Receipt TurnOff

Test#20: Activate 4 6 3 Reject PayCredit Approved Diesel Cancel TurnOff

Test#21: Activate 4 6 3 Approved PayCredit Cancel Approved Super Super Regular Diesel Cancel TurnOff

Test#22: Activate 4 6 3 PayCredit PayCash -5 PayCash 5 Approved Diesel PumpLiter StartPump PumpLiter StartPump StopPump TurnOff NoReceipt TurnOff

Test#23: Activate 4 6 3 PayCash 1 Regular StartPump PumpLiter Receipt TurnOff

Test#24: Activate 4 6 3 Receipt NoReceipt PayCash 7 Super StartPump PumpLiter PumpLiter NoReceipt TurnOff

Test#25: Activate 4 6 3 PayCash 30 Regular StartPump PumpLiter StopPump Receipt TurnOff Test#26: Activate 4 6 3 PayCash 4 Regular StartPump PumpLiter StopPump Receipt TurnOff Test#27: Activate 4 6 3 Activate 4 6 3 Reject Approved Cancel PayCash -5 Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt PayCredit PayCredit Activate 4.0 6.0 3.0

Cancel PayCash 8 Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt TurnOff Reject TurnOff

Test#28: Activate 4.0 6.0 3.0 PayCredit Approved Activate 4.0 6.0 3.0 Reject PayCredit Approved PayCash 5 StartPump PumpLiter StopPump NoReceipt Receipt TurnOff Regular Activate 4.0 6.0 3.0 PayCredit Reject Approved PayCash 5 Regular Super Diesel PumpLiter StopPump NoReceipt Receipt TurnOff Cancel TurnOff

Test#29: Activate 4.0 6.0 3.0 PayCredit Approved Super StartPump Activate 4.0 6.0 3.0 PayCredit Reject Cancel Approved PayCash 5 Regular Super Diesel StartPump NoReceipt Receipt TurnOff StopPump Activate 4 5 6 PayCredit Reject Cancel Approved PayCash 5 Regular Super Diesel StartPump PumpLiter StopPump TurnOff Receipt TurnOff

Test#30: Activate 4.0 6.0 3.0 PayCash 4 Regular StartPump StartPump Regular Super Diesel PayCredit PayCash 4 Approved Reject Cancel NoReceipt Receipt TurnOff Activate 2 3 4 StopPump NoReceipt TurnOff

Test#31: PayCredit Reject Cancel Approved PayCash 5 Regular Super Diesel Startpump PumpLiter StopPump NoReceipt Receipt TurnOff Activate 4.0 6.0 3.0 PayCredit Reject TurnOff \$\$

All the test cases documented in the TS.txt file covers Transition pair testing, Ghost transition testing and Multiple condition testing for the class GasPump. All the test cases passed successfully with no error.

Execution of the test suite

Transition Pair Testing:

For transition pair testing the most important variable is State s because it shows whether the transition has executed or not. After every method we will call GetState so that we can verify the state.

Test#1: Activate(4.0,5.2,6.0) PayCredit() Reject() TurnOff

Action	Expected Output	Actual Output	Result
Activate(4.0,5.2,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4.0	4.0	
	Enter super price	Enter super price	
	5.2	5.2	
	Enter diesel price	Enter diesel price	
	6.0	6.0	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	

	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to pay by credit CHECKING CREDIT CARD. Return Value is1	You have selected to pay by credit CHECKING CREDIT CARD. Return Value is1	Passed
	State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.2 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	State is: S2 Values of Variables Rprice: 4.0Sprice: 5.2Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
Reject()	Your card has been rejected CREDIT CARD IS REJECTED. Return Value is1 State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.2 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Your card has been rejected CREDIT CARD IS REJECTED. Return Value is1 State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.2 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Passed

TurnOff() You selected Turn Off GAS PUMP IS TURNED OFF Return Value is1 State is: Exit Values of Variables Rprice: 4.0 Sprice: 5.2 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	You selected Turn Off GAS PUMP IS TURNED OFF Return Value is1 State is: Exit Values of Variables Rprice: 4.0 Sprice: 5.2 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Passed
--	---	--------

Test#2: Activate(4.0,5.9,6.0) , PayCredit(), Approved(), Cancel(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.9,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4.0	4.0	
	Enter super price	Enter super price	
	5.9	5.9	
	Enter diesel price	Enter diesel price	
	6.0	6.0	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.9	Sprice: 5.9	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Pay(rodi+/)	You have selected to	You have selected to	Passed
PayCredit()			Passeu
	pay by credit CHECKING CREDIT	pay by credit CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is :S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.9	Sprice: 5.9	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	' '	' '	
Approved()	Your card is	Your card is	Passed
	approved	approved	
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.9	Sprice: 5.9	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
	TRANSACTION IS	TRANSACTION IS	
	CANCELLED.	CANCELLED.	
	Return Value is1	Return Value is1	

			Τ
	State is : S0	State is : S0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.9	Sprice: 5.9	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.9	Sprice: 5.9	
	Dprice: 6.0	Dprice: 6.0	
	Dprice: 6.0 w: 1	Dprice: 6.0 w: 1	
	w: 1	w: 1	
	w: 1 Selected Price: 0.0	w: 1 Selected Price: 0.0	
	w: 1 Selected Price: 0.0 Cash: 0.0	w: 1 Selected Price: 0.0 Cash: 0.0	

Test#3: Activate(4.2,5.2,6.2), PayCredit(), Approved(), Diesel(), Cancel(), TurnOff()

	-, o. = , , , o o (, , , , , pp. o o. (,	//= · · · · · · · · · · · · · · · · · ·	
Actions	Expected Output	Actual Output	Result
Activate(4.2,5.2,6.2)	You selected Activate	You selected Activate	Passed
	Enter regular price	Enter regular price	

	1		
	4.2	4.2	
	Enter super price	Enter super price	
	5.2	5.2	
	Enter diesel price	Enter diesel price	
	6.2	6.2	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Day Cradit/	pumped: 0.0 You have selected to	pumped: 0.0 You have selected to	Passed
PayCredit()			Passeu
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 0	w: 0	
	Selected Price: 0.0	W. 0 Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	approved	approved	. 43364
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	D. JUPEN	n. JUPEN	

	T	1	1
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
10			
Diesel()	You selected Diesel	You selected Diesel	Passed
	type	type	
	DIESEL IS SELECTED.	DIESEL IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 1	w: 1	
	Selected Price: 6.2	Selected Price: 6.2	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
		pumped: 0.0	
Cancel()	pumped: 0.0 You selected cancel	You selected cancel	Passed
Caricei()	TRANSACTION IS	TRANSACTION IS	rasseu
	CANCELLED.	CANCELLED.	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 1	w: 1	
	Selected Price: 6.2	Selected Price: 6.2	
	Cash: 0.0	Cash: 0.0	1

	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn Off GAS PUMP IS TURNED OFF	You selected Turn Off GAS PUMP IS TURNED OFF	Passed
	Return Value is1	Return Value is1	
	State is : Exit	State is :Exit	
	Values of Variables Rprice: 4.2	Values of Variables Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 1	w: 1	
	Selected Price: 6.2	Selected Price: 6.2	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Test #4 - Activate(4.0,5.0,6.0), PayCash(3.0), Cancel(), PayCredit(), Approved(), Regular(), Cancel(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	6	6	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	

		1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(3.0)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	3	3	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
	TRANSACTION IS	TRANSACTION IS	. 45564
	CANCELLED.	CANCELLED.	
	\$3.0 OF CASH IS	\$3.0 OF CASH IS	
	RETURNED	RETURNED	
	Return Value is1	Return Value is1	
	Recuiii vatue 131	Recalli value 131	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	TOTAL COST. W.W	TOTAL COST. W.W	

	T-1-1 C1:	Tallal Canalina	
	Total Gasoline	Total Gasoline	
D 0 111/	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
	approved	approved	
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
- 1 0			
Regular()	You selected Regular	You selected Regular	Passed

			1
	REGULAR IS SELECTED.	REGULAR IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
	TRANSACTION IS	TRANSACTION IS	1 43364
	CANCELLED.	CANCELLED.	
	Return Value is1	Return Value is1	
	Recall Value 131	Recall value 131	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	· ·	
	w: 1	Dprice: 6.0	
	Selected Price: 4.0	w: 1 Selected Price: 4.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
T Off()	pumped: 0.0	pumped: 0.0	Danad
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	1000 0000	10tal C03t. 0.0	İ

Total Gasoline pumped: 0.0	Total Gasoline pumped: 0.0	

Test # 5 - Activate(4.2,5.2,6.2), PayCredit(), Approved(), Super(), Cancel(), Turnoff()

Actions	Expected Output	Actual Output	Result
Activate(4.2,5.2,6.2)	You selected	You selected	
	Activate	Activate	
	Enter regular price	Enter regular price	
	4.2	4.2	
	Enter super price	Enter super price	
	5.2	5.2	
	Enter diesel price	Enter diesel price	
	6.2	6.2	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 0	w: 0	

	Calastat Bailes O O	Calada Daian O O	1
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
	approved	approved	
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super ()	You selected Super	You selected Super	Passed
Super ()	· ·	·	rasseu
	type to celected	type	
	SUPER IS SELECTED.	SUPER IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	_ ·	1 -	
	Dprice: 6.2 w: 1	Dprice: 6.2 w: 1	
	Selected Price: 5.2	W: 1 Selected Price: 5.2	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
6 10	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed

	T	T	ı
	TRANSACTION IS	TRANSACTION IS	
	CANCELLED.	CANCELLED.	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 1	w: 1	
	Selected Price: 5.2	Selected Price: 5.2	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.2	Rprice: 4.2	
	Sprice: 5.2	Sprice: 5.2	
	Dprice: 6.2	Dprice: 6.2	
	w: 1	w: 1	
	Selected Price: 5.2	Selected Price: 5.2	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Test # 6 -Activate(4.0,5.0,6.0), PayCash(12.0), Diesel(), StartPump(), PumpLiter(), PumpLiter(), StopPump(), Reciept(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	

	Te	Te	1
	Enter diesel price	Enter diesel price	
	6	6	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(12)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	12	12	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	You selected Diesel	You selected Diesel	Passed
	type	type	
	DIESEL IS SELECTED.	DIESEL IS SELECTED.	
	Return Value is1	Return Value is1	
	State is: S4	State is: S4	
	Values of Variables	Values of Variables	

Г	_	1	1
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
1 0	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	# OI LITEKS FOMPLD.	0 LITERS FOMPLD.	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1		
	Recurii vatue ISI	Return Value is1	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$6.0	TOTAL CHARGE: \$6.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	JC1CCCC 1 1 1 1 1 1 1 1	Jaraca 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

		T	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 6.0	Total Cost: 6.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	2	2	
	TOTAL CHARGE: \$12.0	TOTAL CHARGE: \$12.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	Recarr varae 191	Recar II Tarae 191	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	· -		
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 12.0	Total Cost: 12.0	
	Total Gasoline	Total Gasoline	
	pumped: 2.0	pumped: 2.0	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	2	2	
	TOTAL CHARGE: \$12.0	TOTAL CHARGE: \$12.0	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 12.0	Total Cost: 12.0	
		Total Gasoline	
	Total Gasoline		
1	pumped: 2.0	pumped: 2.0	1

D = = : = = + ()	Van aalad maataal	Var. and and mark and	Danad
Reciept()	You selected reciept	You selected reciept	Passed
	RECEIPT IS PRINTED:	RECEIPT IS PRINTED:	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	2	2	
	TOTAL CHARGE: \$12.0	TOTAL CHARGE: \$12.0	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 12.0	Total Cost: 12.0	
	Total Gasoline	Total Gasoline	
	pumped: 2.0	pumped: 2.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 12.0	Total Cost: 12.0	
		T . 1 C 1:	
	Total Gasoline	Total Gasoline	

Test #7 - Activate(4.0,5.0,6.0), PayCash(2.0),Super(),StartPump(),PumpLiter(),NoReciept(),TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	

	T	T	1
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	6	GAS PUMP IS ON	
	GAS PUMP IS ON		
	Return Value is1 State is : S0	Return Value is1 State is : s0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	_ ·	Sprice: 5.0	
	Sprice: 5.0 Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	W. 0 Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(2)	You selected to pay	You selected to pay	Passed
T dycdom(2)	by cash	by cash	1 43364
	Enter Cash	Enter Cash	
	2	2	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : s3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 2.0	Cash: 2.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super ()	You selected Super	You selected Super	Passed
	type	type	
	SUPER IS SELECTED.	SUPER IS SELECTED.	

	1	T .	T
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 2.0	Cash: 2.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is: S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 2.0	Cash: 2.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Dumplitar/\	pumped: 0.0	pumped: 0.0	Daccad
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	PUMP STOPPED. NOT	PUMP STOPPED. NOT	
	SUFFICIENT FUNDS.	SUFFICIENT FUNDS.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	TOTAL CHARGE, 40.0	O TOTAL CHARGE & CO. O	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	\$2.0 OF CASH IS	\$2.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is: S6	State is: S6	
	Values of Variables	Values of Variables	

		1	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 2.0	Cash: 2.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
NoReciept()	You selected No	You selected No	Passed
	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	PRINTED	PRINTED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 2.0	Cash: 2.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
,	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 2.0	Cash: 2.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Test #8Activate(4.0,5.0,6.0), TurnOff()

Test #8Activate(4.0,5.0			I _ •.
Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	6	6	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Results produced by this test case are as expected. The test case is designed to test the coverage of Transition pairs and they are successfully covered.

Test #9Activate(4.0,5.0,6.0), PayCredit(), Reject(), PayCash(10.0), Regular(), StartPump(), PumpLiter(), StopPump(), NoReceipt(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	Enter super price	Enter super price	
	Enter diesel price	Enter diesel price	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	

	pumped: 0.0	pumped: 0.0	
Reject()	Your card has been rejected CREDIT CARD IS REJECTED. Return Value is1	Your card has been rejected CREDIT CARD IS REJECTED. Return Value is1	Passed
	State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
PayCash(10.0)	You selected to pay by cash Enter Cash 10 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1	You selected to pay by cash Enter Cash 10 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1	Passed
	State is: S3 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	State is: S3 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	

Regular()	You selected Regular type REGULAR IS SELECTED. Return Value is1 State is: S4 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline	You selected Regular type REGULAR IS SELECTED. Return Value is1 State is: S4 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline	Passed
StartPump()	pumped: 0.0 You have selected to start pump PUMP IS READY TO	you have selected to start pump PUMP IS READY TO	Passed
	DISPOSE # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 Return Value is1	DISPOSE # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 Return Value is1	
	State is: S5 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0	State is: S5 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0	
	w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
PumpLiter()	You selected pump liter # OF LITERS PUMPED: 1 TOTAL CHARGE: \$4.0 CONTINUE PUMPING Return Value is1	You selected pump liter # OF LITERS PUMPED: 1 TOTAL CHARGE: \$4.0 CONTINUE PUMPING Return Value is1	Passed

	1	1	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
CL . D ()	pumped: 1.0	pumped: 1.0	D I
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	\$6.0 OF CASH IS	\$6.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	Recuiii Value 131	Recuiii vatae 131	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
NoReceipt()	You selected No	You selected No	Passed
	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	PRINTED	PRINTED	
	Return Value is1	Return Value is1	
	Recum value 151	Keturii vatue 151	
	Chata is a CO	Chala in 150	
	State is : S0	State is: SO	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	

	Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 4.0 Total Gasoline pumped: 1.0	Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 4.0 Total Gasoline pumped: 1.0	
TurnOff()	You selected Turn Off GAS PUMP IS TURNED OFF Return Value is 1 State is: Exit Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 4.0 Total Gasoline pumped: 1.0	You selected Turn Off GAS PUMP IS TURNED OFF Return Value is1 State is: Exit Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 10.0 Total Cost: 4.0 Total Gasoline pumped: 1.0	Passed

Test #10 - Activate(4.0,5.0,6.0), PayCredit(), Reject(), PayCredit(), Approved(), Regular(), StartPump(), PumpLiter(), PumpLiter(), StopPump(), NoReceipt(), PayCredit(), Reject(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	6	6	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	

			I .
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	pampea. 0.0	pumpea. 0.0	
PayCredit()	You have selected to	You have selected to	Passed
i ····································	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	Recuiii Value 131	Recall value 131	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	•	•	
	Dprice: 6.0 w: 0	Dprice: 6.0	
	***	***	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
5	pumped: 0.0	pumped: 0.0	
Reject()	Your card has been	Your card has been	Passed
	rejected	rejected	
	CREDIT CARD IS	CREDIT CARD IS	
	REJECTED.	REJECTED.	
	Return Value is1	Return Value is1	
	State is: S0	State is : S0	
	•	•	
	•		
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0	

PayCredit() PayCredit() PayCredit() You have selected to pay by credit CHECKING CREDIT CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved() Approved Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 You have selected to pumped: 0.0 You have selected to pay by credit CHECKING CREDIT CARD Neturn Value is1 Yours of Variables Return Value is1 You have selected to pay by credit CHECKING CREDIT CARD Neturn Value is1 Yours of Variables Return Value is1		Total Gasoline	Total Gasoline	
PayCredit() You have selected to pay by credit CHECKING CREDIT CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved() You have selected to pay by credit CHECKING CREDIT CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL TYOU have selected to pay by credit CHECKING CREDIT CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Passed approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL				
pay by credit CHECKING CREDIT CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved() Approved() Pay by credit CHECKING CREDIT CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL C. DIESEL	DC	· · ·	· · ·	Danad
CHECKING CREDIT CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL CARD Return Value is1 CHECKING CREDIT CARD APROVAL Return Value is1 Reprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Passed approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL	PayCredit()			Passed
CARD. Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved() CARD. Return Value is1 Re		. ,		
Return Value is1 State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Return Value is1 Retural Selled is is in a selled in a				
State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved() State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL State is: S2 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Viant Cash: 0.0 Total Cost: 0.0 Total C		** ** **		
Values of Variables Rprice: 4.0 Sprice: 5.0 Sprice: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Your card is approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Sprice: 4.0 Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 Sprice: 5.0 Sprice: 5.0 Sprice: 5.0 Sprice: 4.0 Sprice: 4.0 Rprice: 4.0 Sprice: 4.0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Cost		Return Value is1	Return Value is1	
Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL RPrice: 4.0 Sprice: 5.0 Dprice: 6.0 Sprice: 5.0 Dprice: 6.0 Total Gasoline pumped: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Passed CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL		State is : S2	State is : S2	
Sprice: 5.0 Dprice: 6.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Selected Price: 5.0 Dprice: 6.0 W: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 T		Values of Variables	Values of Variables	
Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved()		Rprice: 4.0	Rprice: 4.0	
w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved() Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL W: 0 Selected Price: 0.0 Selected Price: 0.0 Selected Price: 0.0 Selected Price: 0.0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0		Sprice: 5.0	Sprice: 5.0	
w: 0 Selected Price: 0.0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Selected Price: 0.0 Selected Price:		Dprice: 6.0	Dprice: 6.0	
Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Cost: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Your card is Apumped: 0.0 Passed CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL		•		
Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Cash: 0.0 Cash: 0.0 Total Cost: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Your card is approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL C. DIESEL		Selected Price: 0.0	Selected Price: 0.0	
Total Cost: 0.0 Total Gasoline pumped: 0.0 Approved() Approved() Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Total Cost: 0.0 APROVED. Selection Total Cost: 0.0 Total Cost: 0.0 Fasoline Total Casoline Total Gasoline Fasoline Fasoline Total Cost: 0.0 Fasoline F				
Total Gasoline pumped: 0.0 Approved() Your card is your card is approved approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Total Gasoline pumped: 0.0 Your card is Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Total Gasoline pumped: 0.0 Passed Passed Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL				
Approved() Approved() Your card is Your card is approved approved CREDIT CARD APPROVED. SELECT TYPE OF SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Passed Passed Passed Approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL				
Approved() Your card is approved approved CREDIT CARD CREDIT CARD APPROVED. SELECT TYPE OF SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Your card is approved approved APPROVED. SREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Passed CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL				
approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: GASOLINE: G. REGULAR b. SUPER C. DIESEL approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: GASOLINE: GASOLINE: C. DIESEL c. DIESEL	Approved()	•		Passed
CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: GASOLINE: GASOLINE: GASOLINE: GASOLINE: C. DIESEL CREDIT CARD APPROVED. APPROV	, (pp: 0 ved()			. 45564
APPROVED. SELECT TYPE OF GASOLINE: G		• •		
SELECT TYPE OF GASOLINE: GASOLINE: GASOLINE: GASOLINE: GASOLINE: GASOLINE: GASOLINE: GASOLINE: GASOLINE: C. DIESEL GASOLINE: C. DIESEL GASOLINE: C. DIESEL GASOLINE: GASOLINE: GASOLINE: GASOLINE: GASOLINE: C. DIESEL GASOLINE: GASOLINE: C. DIESEL				
GASOLINE: a. REGULAR b. SUPER c. DIESEL GASOLINE: a. REGULAR b. SUPER c. DIESEL				
a. REGULAR b. SUPER c. DIESEL a. REGULAR b. SUPER c. DIESEL c. DIESEL				
b. SUPER c. DIESEL b. SUPER c. DIESEL				
c. DIESEL c. DIESEL				
Return value isi Return value isi				
		keturn value isi	Return value ISI	
State is : S3 State is : S3		State is : S3	State is : S3	
Values of Variables Values of Variables		Values of Variables	Values of Variables	
Rprice: 4.0 Rprice: 4.0		Rprice: 4.0	Rprice: 4.0	
Sprice: 5.0 Sprice: 5.0		Sprice: 5.0		
Dprice: 6.0 Dprice: 6.0		•		
w: 1 w: 1				
Selected Price: 0.0 Selected Price: 0.0				
Cash: 0.0 Cash: 0.0				
Total Cost: 0.0 Total Cost: 0.0				
Total Gasoline Total Gasoline				
pumped: 0.0 pumped: 0.0				
Regular() You selected Regular You selected Regular Passed	Regular()		· · · ·	Passed
type type	J 1,			
REGULAR IS SELECTED. REGULAR IS SELECTED.				

	Dalina Value i at	Daling Value is1	
	Return Value is1	Return Value is1	
	S1	C1 -1 - 1	
	State is: S4	State is: S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to		Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0 LITERS FOMFED.	0 LITERS FOMFLD.	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	· ·	· ·	
	Return Value is1	Return Value is1	
	State is : S1	State is : S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
5	pumped: 0.0	pumped: 0.0	
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	State is : S1	State is : S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	INPITION TIE	INPLICE. T.U	

		1	1
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	2	2	
	TOTAL CHARGE: \$8.0	TOTAL CHARGE: \$8.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	State is : S1	State is : S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 8.0	Total Cost: 8.0	
	Total Gasoline	Total Gasoline	
	pumped: 2.0	pumped: 2.0	
		psp cs. t = 1 c	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	2	2	
	TOTAL CHARGE: \$8.0	TOTAL CHARGE: \$8.0	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
		MOCALLI FALAC LOI	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	VV . ⊥	VV •	

	6.1	6.1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 8.0	Total Cost: 8.0	
	Total Gasoline	Total Gasoline	
	pumped: 2.0	pumped: 2.0	
NoReceipt()	You selected No	You selected No	Passed
	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	PRINTED	PRINTED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 8.0	Total Cost: 8.0	
	Total Gasoline	Total Gasoline	
	pumped: 2.0	pumped: 2.0	
PayCredit()	You have selected to	You have selected to	Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	State is : S2 Values of Variables	State is : S2 Values of Variables	
	Values of Variables	Values of Variables	
	Values of Variables Rprice: 4.0	Values of Variables Rprice: 4.0	
	Values of Variables Rprice: 4.0 Sprice: 5.0	Values of Variables Rprice: 4.0 Sprice: 5.0	
	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0	
	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1	
	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0	
	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0	
	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0	
Reject()	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline	Passed
Reject()	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0	Passed
Reject()	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0 Your card has been	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0 Your card has been	Passed
Reject()	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0 Your card has been rejected	Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0 Your card has been rejected	Passed

	State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0	State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0	
TurnOff()	You selected Turn Off GAS PUMP IS TURNED OFF Return Value is 1 State is: Exit Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0	You selected Turn Off GAS PUMP IS TURNED OFF Return Value is 1 State is: Exit Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 4.0 Cash: 0.0 Total Cost: 8.0 Total Gasoline pumped: 2.0	Passed

Test #11 - Activate(4.0,5.0,6.0), PayCredit(), Approved(), Super(), StartPump(), StopPump(), Reciept(), PayCash(3.0), Cancel(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected Activate Enter regular price	You selected Activate Enter regular price	Passed
	Enter super price 5 Enter diesel price	Enter super price 5 Enter diesel price	
	6	6	

			ı
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
ayorcare()	pay by credit	pay by credit	. 43364
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	Recuiii vatue 131	Recall value 131	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
, , , , , , , , , , , , , , , , , , ,	approved	approved	
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	1.p. 100. 1.0	1.p. 100.	

	T		
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super()	You selected Super	You selected Super	Passed
	type	type	
	SUPER IS SELECTED.	SUPER IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	i · · · ·	Passed
Starte unip()	start pump	start pump	rasseu
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	# OF LITERS PUMPED.	# OF LITERS PUMPED.	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is: S1	State is: S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	W: 1	W: 1	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Receipt()	You selected stop pump PUMP STOPPED. # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 DO YOU WANT A RECEIPT? Return Value is1 State is: \$6 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 5.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 You selected reciept RECEIPT IS PRINTED: # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 Return Value is1 State is: \$0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 5.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Total Gasoline pumped: 0.0	You selected stop pump PUMP STOPPED. # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 DO YOU WANT A RECEIPT? Return Value is1 State is: \$6 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 5.0 Cash: 0.0 Total Gasoline pumped: 0.0 You selected reciept RECEIPT IS PRINTED: # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 Return Value is1 State is: \$0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 1 Selected Price: 5.0 Cash: 0.0 Total Gasoline pumped: 0.0 Total Gasoline	Passed
D C 1 (2)	pumped: 0.0	pumped: 0.0	
PayCash(3)	You selected to pay by cash Enter Cash 3	You selected to pay by cash Enter Cash 3	Passed

	1	T	1
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	 State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Cancel()	pumped: 0.0 You selected cancel	pumped: 0.0 You selected cancel	Passed
Cancei()	TRANSACTION IS	TRANSACTION IS	rasseu
	CANCELLED.	CANCELLED.	
	\$3.0 OF CASH IS	\$3.0 OF CASH IS	
	RETURNED	RETURNED	
	Return Value is1	Return Value is1	
	 State is : S0	 State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	W: 0	W: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is 1	Return Value is 1	
	State is : Exit	State is : Exit	

Rprice: 4.0	Rprice: 4.0
Sprice: 5.0	Sprice: 5.0
Dprice: 6.0	Dprice: 6.0
w: 0	w: 0
Selected Price: 5.0	Selected Price: 5.0
Cash: 3.0	Cash: 3.0
Total Cost: 0.0	Total Cost: 0.0
Total Gasoline	Total Gasoline
pumped: 0.0	pumped: 0.0

Test #12- Activate(4.0,5.0,6.0), PayCredit(), Approved(), Diesel(), StartPump(), StopPump(), NoReciept().PayCash(3.0).Cancel(). TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	6	6	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	

_	1	1	, , , , , , , , , , , , , , , , , , , ,
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
	approved	approved	
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
		Total Cost: 0.0	
	Total Cost: 0.0		
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	You selected Diesel	You selected Diesel	Passed
	type	type	
	DIESEL IS SELECTED.	DIESEL IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	pprice. U.V	pprice. U.V	

	1	T	ı
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	Recuiii vatae 131	Recuiii vatae 131	
	State is : S1	State is : S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	· ·	-	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Cusii. V.V	Cusii. V.V	

	Total Cost: 0.0	Total Cost: 0.0	
		Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
NI-D	pumped: 0.0	pumped: 0.0	D I
NoReceipt()	You selected No	You selected No	Passed
	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	PRINTED	PRINTED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(3.0)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	3	3	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
		6	
	State is: S3	State is: S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0 w: 0	Dprice: 6.0 w: 0	
	W: 0 Selected Price: 6.0	W: 0 Selected Price: 6.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
	TRANSACTION IS	TRANSACTION IS	. 43364
ĺ	I IVUIDUCITUM TO	I LIVUIDACITOI TO	I

	CANCELLED	CANCELLED	
	CANCELLED.	CANCELLED.	
	\$3.0 OF CASH IS	\$3.0 OF CASH IS	
	RETURNED	RETURNED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
Turrion()	Off	Off	i usseu
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is 1	Return Value is 1	
	Recuiii vatue 13 1	Recuiii value 13 1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 3.0	Cash: 3.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Test #13- Activate(4.0,5.0,6.0), PayCash(11.0), Diesel(), StartPump(), PumpLiter(), PumpLiter(), Reciept(), PayCredit(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected Activate Enter regular price	You selected Activate Enter regular price	Passed

PayCash(11)	Enter super price Enter diesel price GAS PUMP IS ON Return Value is1 State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 You selected to pay by cash Enter Cash 11 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 11.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Enter super price Enter diesel price GAS PUMP IS ON Return Value is1 State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 You selected to pay by cash Enter Cash 12 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 0.0 Cash: 11.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Passed
Deisel()	You selected Diesel type DIESEL IS SELECTED.	You selected Diesel type DIESEL IS SELECTED.	Passed

	B	B	
	Return Value is1	Return Value is1	
StartPump()	State is: S4 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 6.0 Cash: 11.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 You have selected to start pump PUMP IS READY TO	State is: S4 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 6.0 Cash: 11.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 You have selected to start pump PUMP IS READY TO	Passed
	DISPOSE # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 Return Value is1	DISPOSE # OF LITERS PUMPED: 0 TOTAL CHARGE: \$0.0 Return Value is1	
	State is: S5 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 6.0 Cash: 11.0	State is: S5 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 6.0 Cash: 11.0	
	Total Cost: 0.0 Total Gasoline pumped: 0.0	Total Cost: 0.0 Total Gasoline pumped: 0.0	
PumpLiter()	You selected pump liter # OF LITERS PUMPED: 1 TOTAL CHARGE: \$6.0 CONTINUE PUMPING Return Value is1	You selected pump liter # OF LITERS PUMPED: 1 TOTAL CHARGE: \$6.0 CONTINUE PUMPING Return Value is1	Passed
	State is : S5 Values of Variables	State is : S5 Values of Variables	

		T	ī
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 11.0	Cash: 11.0	
	Total Cost: 6.0	Total Cost: 6.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	PUMP STOPPED. NOT	PUMP STOPPED. NOT	
	SUFFICIENT FUNDS.	SUFFICIENT FUNDS.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$6.0	TOTAL CHARGE: \$6.0	
	\$5.0 OF CASH IS	\$5.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 11.0		
	Total Cost: 6.0	Cash: 11.0	
		Total Cost: 6.0	
	Total Gasoline	Total Gasoline	
D	pumped: 1.0	pumped: 1.0	D
Receipt()	You selected reciept	You selected reciept	Passed
	RECEIPT IS PRINTED:	RECEIPT IS PRINTED:	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$6.0	TOTAL CHARGE: \$6.0	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	איז ולכן איז ולכן	ואכן ועכ. אוויין	

d
d
d

0FF	OFF	
Return Value is 1	Return Value is 1	
State is : Exit	State is : Exit	
Values of Variables	Values of Variables	
Rprice: 4.0	Rprice: 4.0	
Sprice: 5.0	Sprice: 5.0	
Dprice: 6.0	Dprice: 6.0	
w: 0	w: 0	
Selected Price: 6.0	Selected Price: 6.0	
Cash: 11.0	Cash: 11.0	
Total Cost: 6.0	Total Cost: 6.0	
Total Gasoline	Total Gasoline	
pumped: 1.0	pumped: 1.0	

Test #14- Activate(4.0,5.0,6.0), PayCash(12.0), Cancel(), PayCash(5.0), Super(), Cancel(), PayCredit(), Reject(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

			 _
PayCash(12.0)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	12	12	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
Cancel()	TRANSACTION IS	TRANSACTION IS	Passeu
	CANCELLED.	CANCELLED.	
	\$12.0 OF CASH IS	\$12.0 OF CASH IS	
	RETURNED	RETURNED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(5.0)	You selected to pay	You selected to pay	Passed
, ,	by cash	by cash	
	Enter Cash	Enter Cash	
	5	5	
	~	~	

	1		1
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	Necarii varae 191	Necdi II Value 101	
	State is: S3	State is: S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super()	You selected Super	You selected Super	Passed
	type	type	
	SUPER IS SELECTED.	SUPER IS SELECTED.	
	Return Value is1	Return Value is1	
	Notal Para Para	TO COMPANY TO LOT	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 5.0	Cash: 5.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
Caricei()	TRANSACTION IS	TRANSACTION IS	1 033CU
	CANCELLED.	CANCELLED.	
	\$5.0 OF CASH IS	\$5.0 OF CASH IS	
	RETURNED	RETURNED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	1		I
	Values of Variables	Values of Variables	

	T	T	ı
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 5.0	Cash: 5.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
,	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	Recuiii valae 131	Recuiii vatae 131	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 5.0	Cash: 5.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Reject()	Your card has been	Your card has been	Passed
	rejected	rejected	
	CREDIT CARD IS	CREDIT CARD IS	
	REJECTED.	REJECTED.	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 5.0	Selected Price: 5.0	
	Cash: 5.0	Cash: 5.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	. 45554
	UII	011	

GAS PUMP IS TURNED	GAS PUMP IS TURNED
OFF	OFF
Return Value is 1	Return Value is 1
State is : Exit	State is : Exit
Values of Variables	Values of Variables
Rprice: 4.0	Rprice: 4.0
Sprice: 5.0	Sprice: 5.0
Dprice: 6.0	Dprice: 6.0
w: 0	w: 0
Selected Price: 5.0	Selected Price: 5.0
Cash: 5.0	Cash: 5.0
Total Cost: 0.0	Total Cost: 0.0
Total Gasoline	Total Gasoline
pumped: 0.0	pumped: 0.0

Test #15- Activate(4.0,5.0,6.0), PayCash(12.0), Diesel(), StartPump(), StopPump(), NoReceipt(), TurnOff()

TurnOff()			
Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	6	6	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(12)	You selected to pay	You selected to pay	Passed

	T	Т	
	by cash	by cash	
	Enter Cash	Enter Cash	
	12	12	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Deisel()	You selected Diesel	You selected Diesel	Passed
	type	type	
	DIESEL IS SELECTED.	DIESEL IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	

		T	T
	Return Value is1	Return Value is1	
	State is: S5	State is: S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	\$12.0 OF CASH IS	\$12.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
NoReceipt()	You selected No	You selected No	Passed
	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	PRINTED	PRINTED	
	Return Value is1	Return Value is1	
		1	1
	State is : S0	State is : S0	
	State is : S0	State is : S0	

	D	D	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
,,	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is 1	Return Value is 1	
	 State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Test #16- Activate(4.0,5.0,6.0), PayCash(12.0), Regular(), Cancel(), PayCash(18.0), Cancel(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,5.0,6.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	5	5	
	Enter diesel price	Enter diesel price	
	6	6	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	

	T	T	I
	State is: 0	State is : 0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(12)	You selected to pay	You selected to pay	Passed
,	by cash	by cash	
	Enter Cash	Enter Cash	
	12	12	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
		b. SUPER	
	b. SUPER		
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 12.0	Cash: 12.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Regular()	You selected Regular	You selected Regular	Passed
J (,	type	type	
	REGULAR IS SELECTED.	REGULAR IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	

	Selected Price: 4.0 Cash: 12.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Selected Price: 4.0 Cash: 12.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
Cancel()	You selected cancel TRANSACTION IS CANCELLED. \$12.0 OF CASH IS RETURNED Return Value is1	You selected cancel TRANSACTION IS CANCELLED. \$12.0 OF CASH IS RETURNED Return Value is1	Passed
	State is: S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0	State is :S0 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0	
Dav Cash (19)	Cash: 12.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Cash: 12.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Danad
PayCash(18)	You selected to pay by cash Enter Cash 18 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1	You selected to pay by cash Enter Cash 18 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1	Passed
	State is: S3 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 18.0 Total Cost: 0.0	State is: S3 Values of Variables Rprice: 4.0 Sprice: 5.0 Dprice: 6.0 w: 0 Selected Price: 4.0 Cash: 18.0 Total Cost: 0.0	

	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
	TRANSACTION IS	TRANSACTION IS	
	CANCELLED.	CANCELLED.	
	\$18.0 OF CASH IS	\$18.0 OF CASH IS	
	RETURNED	RETURNED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 18.0	Cash: 18.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is 1	Return Value is 1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 5.0	Sprice: 5.0	
	Dprice: 6.0	Dprice: 6.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 18.0	Cash: 18.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Multiple Condition Testing:

Since multiple condition testing involves many predicates each condition requires different intermediate variables. And these variables values are checked after every operation and compared with expected values

Test #17 - Activate(4.0,6.0,-3.0), Activate(4.0,-6.0,3.0), Activate(4.0,-6.0,-3.0), Activate(-4.0,6.0,3.0), Activate(-4.0,-6.0,3.0), Activate(-4.0,-6.0,3.0),

Activate(-4.0,-6.0,-3.0), Activate(4.0,6.0,3.0), PayCredit(), Reject(), TurnOff()

Actions	Activate(4.0,6.0,3.0),PayCred Expected Output	Actual Output	Result
Activate(4.0,6.0,-3.0)	You selected	You selected	Passed
Activate(4.0,0.0,-3.0)	Activate	Activate	rasseu
	Enter regular price	Enter regular price	
	4.0	4.0	
	Enter super price 6.0	Enter super price 6.0	
	Enter diesel price	Enter diesel price	
	-3.0	-3.0	
	Return Value is0	Return Value is0	
	State is : Entry	State is : Entry	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,-6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	Enter diesel price	Enter diesel price	
	3	3	
	Return Value is0	Return Value is0	
	State is : Entry	State is : Entry	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	

	1		1
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,-6.0,-3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	-6	-6	
	Enter diesel price	Enter diesel price	
	-3	-3	
	Return Value is0	Return Value is0	
	State is : Entry	State is : Entry	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(-4.0,6.0,3.0)	You selected	You selected	Passed
/ (Citate(4.0,0.0,3.0)	Activate	Activate	1 43364
	Enter regular price	Enter regular price	
	-4	-4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	Return Value is0	Return Value is0	
	Recuiri value 150	Recum value 150	
	State is : Entry	State is : Entry	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	w. ⊌	W. U	

	T .	T .	1
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(-4.0,6.0,-3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	Enter super price	Enter super price	
	Enter diesel price	Enter diesel price	
	-3	-3	
	Return Value is0	Return Value is0	
	State is : Entry	State is : Entry	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(-4.0,-6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	-4	-4	
	Enter super price	Enter super price	
	-6	-6	
	Enter diesel price	Enter diesel price	
	Return Value is0	Return Value is0	
	State is : Entry	State is : Entry	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	

		T	T
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(-4.0,-6.0,-3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	-4	-4	
	Enter super price	Enter super price	
	-6	-6	
	Enter diesel price	Enter diesel price	
	-3	-3	
	Return Value is0	Return Value is0	
	1.000.11.11.10.20.0		
	State is : Entry	State is : Entry	
	Values of Variables	Values of Variables	
	Rprice: 0.0	Rprice: 0.0	
	Sprice: 0.0	Sprice: 0.0	
	Dprice: 0.0	Dprice: 0.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Active to (4.0.6.0.2.0)	pumped: 0.0	pumped: 0.0	Passed
Activate(4.0,6.0,3.0)	You selected	You selected	Passeu
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is: S0	State is: S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	

	Total Gasoline	Total Gasoline	
		pumped: 0.0	
DayCradit/\	pumped: 0.0 You have selected to	You have selected to	Passed
PayCredit()			Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Reject()	Your card has been	Your card has been	Passed
ricjest()	rejected	rejected	lassea
	CREDIT CARD IS	CREDIT CARD IS	
	REJECTED.	REJECTED.	
	Return Value is1	Return Value is1	
	Recall value 131	Recuiii vatae 131	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
rainon()	Off	Off	1 43364
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	Recurr value (SI	Recursi value ISI	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	

Rprice: 4.0	Rprice: 4.0	
Sprice: 6.0	Sprice: 6.0	
Dprice: 3.0	Dprice: 3.0	
w: 0	w: 0	
Selected Price: 0.0	Selected Price: 0.0	
Cash: 0.0	Cash: 0.0	
Total Cost: 0.0	Total Cost: 0.0	
Total Gasoline	Total Gasoline	
pumped: 0.0	pumped: 0.0	

Test #18 - Activate(4.0,6.0,3.0), PayCash(10.0), cancel(), Activate(4.0,6.0,3.0), Activate(4.0,6.0,-3.0), Activate(4.0,-6.0,3.0), Activate(4.0,-6.0,3.0), Activate(-4.0,6.0,3.0), Activate(-4.0,6.0,3.0), Activate(-4.0,-6.0,3.0), Activate(-4.0,-6.0,-3.0), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(10.0)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	10	10	
	SELECT TYPE OF	SELECT TYPE OF	

	GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
Cancel()	You selected cancel TRANSACTION IS CANCELLED. \$10.0 OF CASH IS RETURNED Return Value is1 State is: S0 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline	You selected cancel TRANSACTION IS CANCELLED. \$10.0 OF CASH IS RETURNED Return Value is1 State is: S0 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0 Total Gasoline	Passed
Activate(4.0,6.0,3.0)	pumped: 0.0 You selected Activate Enter regular price 4 Enter super price 6 Enter diesel price 3	pumped: 0.0 You selected Activate Enter regular price 4 Enter super price 6 Enter diesel price 3	Passed

	Datuma Value iso	Datum Value is0	
	Return Value is0	Return Value is0	
	State is: S0 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0	State is: S0 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 10.0 Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,6.0,-3.0)	You selected Activate Enter regular price 4	You selected Activate Enter regular price 4	Passed
	Enter super price	Enter super price	
	6 Enter diesel price	6 Enter diesel price	
	Return Value is0	Return Value is0	
	State is : S0 Values of Variables	State is : S0 Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0 Total Cost: 0.0	Cash: 10.0 Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,-6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	Enter diesel price	Enter diesel price	
	Return Value is0	Return Value is0	

	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,-6.0,-3.0)	You selected	You selected	Passed
Activate(4.0,-0.0,-3.0)	Activate	Activate	rasseu
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	-6	-6	
	Enter diesel price	Enter diesel price	
	-3	-3	
	Return Value is0	Return Value is0	
	State is: S0	State is: S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(-4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	-4	-4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	Return Value is0	Return Value is0	
	NCCUITI VULUE 130	MCCUIII VULUC 130	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Values of Valuables	Values of Variables	

			,
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(-4.0,6.0,-3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	-4	-4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	-3	-3	
	Return Value is0	Return Value is0	
	Recarri varae 130	Recarri varae 130	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
A .: . / A O C O O O O	pumped: 0.0	pumped: 0.0	D 1
Activate(-4.0,-6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	-4	-4	
	Enter super price	Enter super price	
	-6	-6	
	Enter diesel price	Enter diesel price	
	Botuma Value ica		
	Return Value is0	Return Value is0	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	· ·	· ·	
	Sprice: 6.0	Sprice: 6.0	

	T	T	1
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(-4.0,-6.0,-3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	-4	-4	
	Enter super price	Enter super price	
	-6	-6	
	Enter diesel price	Enter diesel price	
	-3	-3	
	Return Value is0	Return Value is0	
	Tarac rata con tarac rata	The carm raight las	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	W. 0 Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
TO((/)	pumped: 0.0	pumped: 0.0	D
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 10.0	Cash: 10.0	
	Total Cost: 0.0	Total Cost: 0.0	

Total Gasoline	Total Gasoline	
pumped: 0.0	pumped: 0.0	

Test #19 - Activate(4.0,6.0,3.0),PayCash(-10),PayCash(4.5),PayCredit(),Regular(),StartPump(),

PumpLiter(),StopPump(),Reciept(), TurnOff()

PumpLiter(),StopPump() Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	_
PayCash(-10)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	-10 Patron Value i 20	-10 Patron Value i 20	
	Return Value is0	Return Value is0	
	State is: S0	State is . SO	
	Values of Variables	State is : S0 Values of Variables	
	Rprice: 4.0 Sprice: 6.0	Rprice: 4.0	
	Dprice: 3.0	Sprice: 6.0	
	w: 0	Dprice: 3.0	
	Selected Price: 0.0	w: 0	
	Cash: 0.0	Selected Price: 0.0	
	Total Cost: 0.0	Cash: 0.0	

			T
	Total Gasoline		
	pumped: 0.0	Total Gasoline	
		pumped: 0.0	
PayCash(4.5)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	4.5	4.5	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	The same range and	Metal Haras 191	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 4.5	Cash: 4.5	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
, , ,	pay by credit	pay by credit	
	Return Value is0	Return Value is0	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	W. 0 Selected Price: 0.0	
	Cash: 4.5	Cash: 4.5	
	Total Casalina	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
D =()	pumped: 0.0	pumped: 0.0	Danasid
Regular()	You selected Regular	You selected Regular	Passed
	type	type	
	REGULAR IS SELECTED.	REGULAR IS SELECTED.	

	T		<u> </u>
	Return Value is1	Return Value is1	
		Chaha ia . C4	
	State is: S4	State is : S4 Values of Variables	
	Values of Variables		
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.5	Cash: 4.5	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.5	Cash: 4.5	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
D	pumped: 0.0	pumped: 0.0	Dan et al
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
		6	
	State is : S5	State is : S5	
	State is : S5 Values of Variables	State is : S5 Values of Variables	

_		1	1
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.5	Cash: 4.5	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	\$0.5 OF CASH IS	\$0.5 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.5	Cash: 4.5	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
Reciept()	You selected reciept	You selected reciept	Passed
	RECEIPT IS PRINTED:	RECEIPT IS PRINTED:	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	

	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.5	Cash: 4.5	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
TurnOff()	You selected Turn	You selected Turn	Passed
Turnon()	Off	Off	rasseu
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.5	Cash: 4.5	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	

Test #20 - Activate(4.0,6.0,3.0),Reject(),PayCredit(),Approved(),Diesel(),Cancel(),TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	

	_		T
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Reject()	Your card has been	Your card has been	Passed
	rejected	rejected	
	Return Value is0	Return Value is0	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	0.00		
	Total Cost: 0.0	Total Cost: 0.0	
		Total Cost: 0.0 Total Gasoline	
	Total Cost: 0.0		
Approved()	Total Cost: 0.0 Total Gasoline	Total Gasoline	Passed
Approved()	Total Cost: 0.0 Total Gasoline pumped: 0.0 Your card is	Total Gasoline pumped: 0.0 Your card is	Passed
Approved()	Total Cost: 0.0 Total Gasoline pumped: 0.0	Total Gasoline pumped: 0.0	Passed
Approved()	Total Cost: 0.0 Total Gasoline pumped: 0.0 Your card is approved	Total Gasoline pumped: 0.0 Your card is approved	Passed

			1
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	Recurr value (SI	Return value 151	
	Chaha ia . C2	Chaha is . C2	
	State is: S3	State is: S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	You selected Diesel	You selected Diesel	Passed
	type	type	
	DIESEL IS SELECTED.	DIESEL IS SELECTED.	
	Return Value is1	Return Value is1	
	Metal II Tarae 191	TO COMPANY TO LOT	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	1 •	·	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
Currectly	TRANSACTION IS	TRANSACTION IS	1 43364
	CANCELLED.	CANCELLED.	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	1 1/0/12 60 1 // (/)	Rprice: 4.0	1
i	Rprice: 4.0		
	Sprice: 6.0	Sprice: 6.0	
	'		

Total Cost: 0. Total Gasoline pumped: 0.0	Total Gasoline pumped: 0.0
TurnOff() You selected Toff GAS PUMP IS TUOFF Return Value i State is: Exi Values of Vari Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 1 Selected Price Cash: 0.0 Total Cost: 0. Total Gasoline pumped: 0.0	You selected Turn Off NED GAS PUMP IS TURNED OFF L Return Value is1 State is: Exit Poles Values of Variables Rprice: 4.0 Sprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 1 3.0 Selected Price: 3.0 Cash: 0.0

Test #21-Activate(4.0,6.0,3.0),Approved(),PayCredit(),Cancel(),Approved(),Super(),Super(),Regular(),Diesel(),Cancel(),TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	

		T	Γ
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
	approved	approved	
	Return Value is0	Return Value is0	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
	Return Value is0	Return Value is0	
		C1 -1	
	State is : S2 Values of Variables	State is : S2	

	T	T	l I
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
	approved	approved	
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	Recarii varae 131	Recall value 131	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Cura a m()	pumped: 0.0	pumped: 0.0	Decent
Super()	You selected Super	You selected Super	Passed
	type	type	
	SUPER IS SELECTED.	SUPER IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	

	Total Costs O O	Total Costs 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
C	pumped: 0.0	pumped: 0.0	Dagged
Super()	You selected Super	You selected Super	Passed
	type	type	
	Return Value is0	Return Value is0	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Regular()	You selected Regular	You selected Regular	Passed
	type	type	
	Return Value is0	Return Value is0	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	You selected Diesel	You selected Diesel	Passed
	type	type	
	Return Value is0	Return Value is0	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	

	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	You selected cancel	You selected cancel	Passed
	TRANSACTION IS	TRANSACTION IS	
	CANCELLED.	CANCELLED.	
	Return Value is1	Return Value is1	
	State is : S0	 State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
Turnon()	Off	Off	1 asseu
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
		1	
	pumped: 0.0	pumped: 0.0	

Test #22 - Activate(4.0,6.0,3.0),PayCredit(),PayCash(-5), PayCash(5), Approved(), Diesel(), PumpLiter(),StartPump(),PumpLiter(),StartPump(),TurnOff(), NoReciept(), TurnOff()

Actions	Expected Output	Actual Output	Result

Activate(4.0.6.0.2.0)	You selected	You selected	Passed
Activate(4.0,6.0,3.0)	Activate	Activate	Passeu
	Enter regular price	Enter regular price	
		•	
	Enter super price	Enter super price	
		~	
	Enter diesel price	Enter diesel price	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	Recall varae 131	Recarm value 151	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to		Passed
	pay by credit	pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(-5)	You selected to pay	You selected to pay	Passed
	by cash	by cash	
	Enter Cash	Enter Cash	
	-5	-5	
	Return Value is0	Return Value is0	

		T	1
	State is: S2 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline	State is: S2 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline	
PayCash(5)	pumped: 0.0 You selected to pay by cash Enter Cash 5 Return Value is0	pumped: 0.0 You selected to pay by cash Enter Cash 5 Return Value is0	Passed
	State is: S2 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	State is: S2 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
Approved()	Your card is approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1	Your card is approved CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1	Passed
	State is : S3 Values of Variables Rprice: 4.0 Sprice: 6.0	State is : S3 Values of Variables Rprice: 4.0 Sprice: 6.0	

	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	You selected Diesel	You selected Diesel	Passed
	type	type	
	DIESEL IS SELECTED.	DIESEL IS SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	. 0.000
	Return Value is0	Return Value is0	
	Recarm varue 130	Recarn value 130	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	

F	T	T	1
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is : S1	State is : S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PumpLiter()	You selected pump	You selected pump	Passed
r umpliter()	liter	liter	rasseu
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	=	_	
	TOTAL CHARGE: \$3.0	TOTAL CHARGE: \$3.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	State is : S1	State is : S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 3.0	Total Cost: 3.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	. 45554
	Return Value is0	Return Value is0	
	TOOM IN TALAC 150	TOCALLI VALAC 150	
	State is : S1	State is : S1	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Detected Fitter 3.0	Derected Litter 2.0	

			T
	Cash: 0.0	Cash: 0.0	
	Total Cost: 3.0	Total Cost: 3.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$3.0	TOTAL CHARGE: \$3.0	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 3.0	Total Cost: 3.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
TurnOff()	You selected Turn	You selected Turn	Passed
Turnon()	Off	Off	rasseu
	1 * * *	* * *	
	Return Value is0	Return Value is0	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 3.0	Total Cost: 3.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
NoReciept()	You selected No	You selected No	Passed
	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	PRINTED	PRINTED	
	LINTHIED		<u> </u>

	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 3.0	Total Cost: 3.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 3.0	Selected Price: 3.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 3.0	Total Cost: 3.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	

Test #23 - Activate(4.0,6.0,3.0), PayCash(1.0), Regular(), StartPump(), Pumpliter(), Reciept(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	

		T
	GAS PUMP IS ON	
Return Value is1	Return Value is1	
State is : S0	State is : S0	
Values of Variables	Values of Variables	
Rprice: 4.0	Rprice: 4.0	
Sprice: 6.0	Sprice: 6.0	
Dprice: 3.0	Dprice: 3.0	
w: 0	w: 0	
Selected Price: 0.0	Selected Price: 0.0	
Cash: 0.0	Cash: 0.0	
Total Cost: 0.0	Total Cost: 0.0	
	-	Passed
		. 45564
_		
-	_	
Return value ISI	Return value ISI	
State is : S3	State is · S3	
•		
	· ·	
•	•	
	<u>'</u>	Doggas
•	9	Passed
keturn Value 1s1	Keturn Value 1s1	
State is : S4	State is : S4	
State is : S4 Values of Variables	State is : S4 Values of Variables	
	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0	Return Value is1 State is: S0 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 You selected to pay by cash Enter Cash 1 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 0.0 Total Gasoline pumped: 0.0 You selected to pay by cash Enter Cash 1 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 1.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 You selected Regular type REGULAR IS SELECTED. REGULAR IS SELECTED.

-	I		1
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 1.0	Cash: 1.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 1.0	Cash: 1.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Dumplitor/\	pumped: 0.0	pumped: 0.0	Dassad
Pumpliter()	You selected pump	You selected pump	Passed
	PUMP STOPPED. NOT	PUMP STOPPED. NOT	
	SUFFICIENT FUNDS.	SUFFICIENT FUNDS.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	TOTAL CHARGE: #0.0	O TOTAL CHARGE 40 0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	\$1.0 OF CASH IS	\$1.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	· · · •	_ r ··•	I

	T	Τ	I
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 1.0	Cash: 1.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Reciept()	You selected reciept	You selected reciept	Passed
	RECEIPT IS PRINTED:	RECEIPT IS PRINTED:	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 1.0	Cash: 1.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
14111611()	Off	Off	. 45564
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	Recuiii valae 151	Recall value 131	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 1.0	Cash: 1.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	pampea. 0.0	pampea. 0.0	

Test #24 - Activate(4.0,6.0,3.0), Receipt(), NoReceipt(), PayCash(7.0), Super(), StartPump(),

Pumpliter(), Pumpliter(), NoReciept(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
5	pumped: 0.0	pumped: 0.0	
Receipt()	You selected reciept	·	Passed
	Return Value is0	Return Value is0	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
N - D :+/\	pumped: 0.0	pumped: 0.0	D1
NoReceipt()	You selected No	You selected No	Passed
	reciept	reciept	
	Return Value is0	Return Value is0	
L			

			1
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(7.0)	You selected to pay	You selected to pay	Passed
1 47 54511(715)	by cash	by cash	. 45554
	Enter Cash	Enter Cash	
	7	7	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 7.0	Cash: 7.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super()	You selected Super	You selected Super	Passed
	type	type	
	SUPER IS SELECTED.	SUPER IS SELECTED.	
	Return Value is1	Return Value is1	
	Notal I value 131	Recall value 131	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	1	1	1

	T .	T .	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 7.0	Cash: 7.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	Recuiii vatae 131	Recuiii Value 131	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 7.0	Cash: 7.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
- II. ()	pumped: 0.0	pumped: 0.0	
Pumpliter()	You selected pump	You selected pump	Passed
	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$6.0	TOTAL CHARGE: \$6.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 7.0	Cash: 7.0	
	Total Cost: 6.0	Total Cost: 6.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	

Pumpliter()	You selected pump	You selected pump	Passed
T diriplicer()	liter	liter	1 usseu
	PUMP STOPPED. NOT	PUMP STOPPED. NOT	
	SUFFICIENT FUNDS.	SUFFICIENT FUNDS.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$6.0	TOTAL CHARGE: \$6.0	
	\$1.0 OF CASH IS	\$1.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	Recall value 131	Recall value 131	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 7.0	Cash: 7.0	
	Total Cost: 6.0	Total Cost: 6.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
NoReciept()	You selected No	You selected No	Passed
	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	PRINTED	PRINTED	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 7.0	Cash: 7.0	
	Total Cost: 6.0	Total Cost: 6.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	

TurnOff()	You selected Turn Off	You selected Turn Off	Passed
	GAS PUMP IS TURNED OFF	GAS PUMP IS TURNED OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 6.0	Selected Price: 6.0	
	Cash: 7.0	Cash: 7.0	
	Total Cost: 6.0	Total Cost: 6.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	

Test #25 - Activate(4.0,6.0,3.0), PayCash(30.0), Regular(), StartPump(), Pumpliter(), StopPump(), Reciept(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	Enter regular price	Enter regular price	Passed
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(30.0)	You selected to pay	You selected to pay	Passed

	by cash Enter Cash 30 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3	by cash Enter Cash 30 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL Return Value is1 State is: S3	
	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 30.0 Total Cost: 0.0 Total Gasoline	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 0.0 Cash: 30.0 Total Cost: 0.0 Total Gasoline	
Regular()	pumped: 0.0 You selected Regular type REGULAR IS SELECTED. Return Value is1 State is : S4	you selected Regular type REGULAR IS SELECTED. Return Value is1 State is: S4	Passed
	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 30.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 30.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	

			1
StartPump()	Values of Variables	Values of Variables	Passed
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 30.0	Cash: 30.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PumpLiter()	You selected pump	You selected pump	Passed
	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	State is: S5		
	State is : 55	State is : S5	
	Values of Variables	 Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 30.0	Cash: 30.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	\$26.0 OF CASH IS	\$26.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	

	T .	T .	ı
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 30.0	Cash: 30.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
Reciept()	You selected reciept	You selected reciept	Passed
	RECEIPT IS PRINTED:	RECEIPT IS PRINTED:	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 30.0	Cash: 30.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
	pumpea. 1.0	pampea. 1.0	
TurnOff()	You selected Turn	You selected Turn	Passed
,,	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 30.0	Cash: 30.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
[1	1	L

Multiple condition testing is used to cover all possible combinations of complex predicates.

Test #26 - Activate(4.0,6.0,3.0), PayCash(4.0), Regular(), StartPump(), Pumpliter(),

StopPump(), Reciept(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(4.0)	Enter Cash	Enter Cash	Passed
	4	4	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	

	Total Gasoline	Total Casolina	
		Total Gasoline	
De sude u/\	pumped: 0.0	pumped: 0.0	Danasal
Regular()	You selected Regular	You selected Regular	Passed
	type	type	
	REGULAR IS SELECTED.	REGULAR IS SELECTED.	
	Return Value is1	Return Value is1	
	State is: S4	State is: S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	You have selected to	You have selected to	Passed
	start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is : S5	State is : S5	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PumpLiter()	You selected pump	You selected pump	Passed
,	liter	liter	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	CONTINUE PUMPING	CONTINUE PUMPING	
	Return Value is1	Return Value is1	
	State is: S5	State is: S5	
	3 5 4 5 6 5 5 5 5 5	3 5 4 5 6 5 5 5 5 5	

	T .		
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
		Total Cost: 4.0	
	Total Cost: 4.0		
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
Receipt()	You selected reciept	You selected reciept	Passed
. "	RECEIPT IS PRINTED:	RECEIPT IS PRINTED:	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	1	1	
	TOTAL CHARGE: \$4.0	TOTAL CHARGE: \$4.0	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Jerecea Hile. T.V	Jerecea Hile. T.V	

	Cash: 4.0	Cash: 4.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 4.0	Total Cost: 4.0	
	Total Gasoline	Total Gasoline	
	pumped: 1.0	pumped: 1.0	

Multiple condition testing is used to cover all possible combinations of complex predicates.

Ghost Transtion Testing

Test #27 - Activate(4.0,6.0,3.0), Activate(4.0,6.0,3.0), Reject(), Approved(), Cancel(), Paycash(-5), Regular(), Super(), Diesel(), StartPump(), PumpLiter(), StopPump(), NoReceipt(), Receipt(), PayCredit(), PayCredit(), Activate(4.0,6.0,3.0), Cancel(), Paycash(5), Regular(), Super(), Diesel(), StartPump(), PumpLiter(), StopPump(), NoReceipt(), Receipt(), TurnOff(), Reject(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	

	T	Table	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,6.0,3.0)	Return Value is0	Return Value is0	Passed
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Reject()	Return Value is0	Return Value is0	Passed
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Return Value is0	Return Value is0	Passed
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	

	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	Return Value is0	Return Value is0	Passed
cancei()	State is : S0	State is : S0	1 d33Cd
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Paycash(-5)	Return Value is0	Return Value is0	Passed
,	State is : S0	State is : S0	. 0.000
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Regular()	Return Value is0	Return Value is0	Passed
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super()	Return Value is0	Return Value is0	Passed
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	

	T	T	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	Return Value is0	Return Value is0	Passed
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StartPump()	Return Value is0	Return Value is0	Passed
()	State is : S0	State is: S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PumpLiter()	Return Value is0	Return Value is0	Passed
r diliptitei()	State is : S0	State is: S0	rasseu
	Values of Variables	Values of Variables	
	Rprice: 4.0		
	1 .	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0 w: 0	Dprice: 3.0 w: 0	
	Selected Price: 0.0		
		Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

CL D /\	D-1 V-1 :-0	D-1 1-0	D
StopPump()	Return Value is0	Return Value is0	Passed
	State is: SO	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
NoReceipt()	Return Value is0	Return Value is0	Passed
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Receipt()	Return Value is0	Return Value is0	Passed
1 0	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected to	You have selected to	Passed
. ayorcare()	pay by credit	pay by credit	. 43364
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	

	T	Ι	1
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,6.0,3.0)	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Cancel()	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
			1
	Total Cost: 0.0	Total Cost: 0.0	
	Total Cost: 0.0 Total Gasoline	Total Cost: 0.0 Total Gasoline	

	T	T	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Paycash(5)	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Regular()	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super()	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	cusii. 0.0	cusii. v.v	

	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	Return Value is0	Return Value is0	Passed
Diesei()	State is : S2	State is : S2	rasseu
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
C+artDuran/\	pumped: 0.0 Return Value is0	pumped: 0.0	Passed
StartPump()	State is : S2	Return Value is0 State is : S2	Passeu
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	•	· •	
	Dprice: 3.0 w: 0	Dprice: 3.0 w: 0	
	Selected Price: 0.0 Cash: 0.0	Selected Price: 0.0 Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Dumant it or/\	pumped: 0.0	pumped: 0.0	Passed
PumpLiter()	Return Value is0	Return Value is0 State is : S2	Passeu
	State is: S2		
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0 Dprice: 3.0	
	Dprice: 3.0 w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
		pumped: 0.0	
StopPump()	pumped: 0.0 Return Value is0	Return Value is0	Passed
Stopt unip()	State is: S2	State is: S2	rasseu
	Values of Variables	Values of Variables	
		Rprice: 4.0	
	Rprice: 4.0	· •	
	Sprice: 6.0	Sprice: 6.0	

	Τ	Ι	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
NoReceipt()	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Receipt()	Return Value is0	Return Value is0	Passed
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	Return Value is0	Return Value is0	Passed
TurnOff()			rasseu
	State is : S2 Values of Variables	State is: S2	
		Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	W: 0	W: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

Reject()	Your card has been	Your card has been	Passed
Neject()	rejected	rejected	rasseu
	CREDIT CARD IS	CREDIT CARD IS	
	REJECTED.	REJECTED.	
	Return Value is1	Return Value is1	
	State is: S0	State is: S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	l .	1	I.

This test case is to cover all ghost transitions for state 0 and state 2. The methods returning the value 0 are default/ghost transitions and methods returning value 1 are used for change of state.

Test #28 - Activate(4.0,6.0,3.0), PayCredit(), Approved(), Activate(4.0,6.0,3.0), Reject(), PayCredit(), Approved(), Paycash(5), StartPump(), PumpLiter(), StopPump(), NoReceipt(), Receipt(), TurnOff(), Regular(), Activate(4.0,6.0,3.0), PayCredit(), Reject(), Approved(), Paycash(5), Regular(), Super(), Diesel(), PumpLiter(), StopPump(), NoReceipt(), Receipt(), TurnOff(), Cancel(), TurnOff()

	Actions	Fv	pected Out	nut	Actual Out	nut	Result	ĺ
	Actions		pected Out	put	Actual Out	put	itesuit	1

Activate(4 6 2)	Vou salastad	You selected	Passed
Activate(4 , 6 , 3)	You selected Activate	Activate	Passeu
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	Recum value isi	Return value 151	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	You have selected	You have selected	Passed
	to pay by credit	to pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	CARD.	CARD.	
	Return Value is1	Return Value is1	
	State is : S2	State is : S2	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Your card is	Your card is	Passed
	approved	approved	
	CREDIT CARD	CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	

	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	1.000		
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	·		
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	Return Value is0	Return Value is0	
	6	6	
	State is : S3	State is: S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Reject()	Return Value is0	Return Value is0	Passed
	6	6	
	State is : S3	State is: S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	

	T	T	1
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	Return Value is0	Return Value is0	Passed
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Return Value is0	Return Value is0	Passed
/ (pproved()	Recall value 130	Recall value 130	lassea
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
Deves sh/E)	pumped: 0.0	pumped: 0.0	Dece
Paycash(5)	Return Value is0	Return Value is0	Passed
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	

Total Gasoline	Total Gasoline	
	• • •	Passed
Recall value 150	Necarii varae 150	. 45564
State is : S3	State is : S3	
•		
•		
w: 1	w: 1	
Selected Price: 0.0	Selected Price: 0.0	
Cash: 0.0	Cash: 0.0	
Total Cost: 0.0	Total Cost: 0.0	
Total Gasoline	Total Gasoline	
pumped: 0.0	pumped: 0.0	
Return Value is0	Return Value is0	Passed
State is : S3	State is : S3	
Values of Variables	Values of Variables	
Rprice: 4.0	Rprice: 4.0	
•	Sprice: 6.0	
Dprice: 3.0	Dprice: 3.0	
w: 1	w: 1	
Selected Price: 0.0	Selected Price: 0.0	
Cash: 0.0	Cash: 0.0	
Total Cost: 0.0	Total Cost: 0.0	
Total Gasoline	Total Gasoline	
pumped: 0.0	pumped: 0.0	
Return Value is0	Return Value is0	Passed
State is : S3	State is : S3	
Values of Variables	Values of Variables	
Rprice: 4.0	Rprice: 4.0	
•		
•	-	
w: 1	w: 1	
Selected Price: 0.0	Selected Price: 0.0	
Cash: 0.0	Cash: 0.0	
Total Cost: 0.0	Total Cost: 0.0	
Total Gasoline	Total Gasoline	
pumped: 0.0	pumped: 0.0	
Return Value is0	Return Value is0	Passed
	Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Return Value is0 State is: S3 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 1 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0 Total Gasoline pumped: 0.0 Return Value is0 State is: S3 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 1 Selected Price: 0.0 Cash: 0.0 Total Cost: 0.0	pumped:0.0pumped:0.0Return Value is0Return Value is0State is:S3Values of VariablesRprice:4.0Sprice:6.0Sprice:6.0Dprice:3.0w:1Selected Price:0.0Dprice:3.0W:1Selected Price:0.0Cash:0.0Total Cost:0.0Total Cost:0.0Total Cost:0.0Total Gasoline pumped:0.0Return Value is0State is:S3Values of VariablesRprice:4.0Sprice:6.0Sprice:6.0Sprice:4.0Sprice:6.0Dprice:3.0w:1Selected Price:0.0Cash:0.0Total Cost:0.0Total Cost:0.0Total Cost:0.0Total Gasoline pumped:0.0Return Value is0State is:S3Values of VariablesRprice:4.0Sprice:6.0Sprice:6.0Sprice:4.0Sprice:4.0Sprice:4.0Sprice:6.0Dprice:3.0w:1Selected Price:0.0Cash:0.0Total Cost:0.0Total Cost:0.0Total Cost:0.0Total Gasoline pumped:0.0Total Gasoline pumped:0.0

	T	T	I
	State is: S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Receipt()	Return Value is0	Return Value is0	Passed
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff(),	Return Value is0	Return Value is0	Passed
(//	The same rates are	needin rarde ree	
	State is : S3	State is : S3	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Regular()	You selected	You selected	Passed
	Regular type	Regular type	
	REGULAR IS	REGULAR IS	
	SELECTED.	SELECTED.	
	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
	JUNIO LO . JT	JUNCO LO . JT	

	T	T	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
, , , ,	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	Return Value is0	Return Value is0	
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
		pumped: 0.0	
Day(radi+()	 		Dassad
PayCredit()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Reject()	†		Passed
Reject()	Return Value is0	Return Value is0	Passed

	Ta	Ta	1
	State is: S4	State is: S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Approved()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Paycash(5)	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Regular()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	

	Total Costs 0.0	Total Cast: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Super()	Return Value is0	Return Value is0	Passed
	State is: S4	State is: S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PumpLiter()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StopPump()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	

	T		1
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
NoReceipt()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Receipt()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	Return Value is0	Return Value is0	Passed
	State is : S4	State is : S4	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	pampea. V.V	Pampea. 0.0	j

	T	T	·
Cancel()	You selected cancel	You selected cancel	Passed
	TRANSACTION IS	TRANSACTION IS	
	CANCELLED.	CANCELLED.	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	
	V alues of	V alues of	
	Variables	Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 1	w: 1	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	1	1	

This test case is to cover all ghost transitions for state 3 and state 4. The methods returning the value 0 are default/ghost transitions and methods returning value 1 are used for change of state.

Test #29 - Activate(4.0, 6.0, 3.0), PayCredit(), Approved(), Super(), StartPump(), Activate(4.0,6.0,3.0), PayCredit(), Reject(), Cancel(), Approved(), Paycash(5), Regular(), Super(), Diesel(), StartPump(), NoReceipt(), Receipt(), TurnOff(), StopPump(), Activate(4.0,6.0,3.0), PayCredit(), Reject(), Cancel(), Approved(), Paycash(5), Regular(), Super(), Diesel(), StartPump(), PumpLiter(), StopPump(), TurnOff(), Receipt(), TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0, 6.0, 3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	Enter diesel price	Enter diesel price	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
D C !!!/\	pumped: 0.0	pumped: 0.0	5 1
PayCredit()	You have selected	You have selected	Passed
	to pay by credit	to pay by credit	
	CHECKING CREDIT	CHECKING CREDIT	
	Return Value is1	Return Value is1	
	State is: S2	State is: S2	
Approved()			Passed
Approved()	Your card is	Your card is	Passeu
	approved CREDIT CARD	approved CREDIT CARD	
	APPROVED.	APPROVED.	
	SELECT TYPE OF	SELECT TYPE OF	
	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	Return Value is1	Return Value is1	
	State is : S3	State is : S3	
Super()	You selected Super	You selected Super	Passed
	type	type	
	SUPER IS SELECTED.	SUPER IS SELECTED.	

	Return Value is1	Return Value is1	
	State is : S4	State is : S4	
StartPump()	You have selected	You have selected	Passed
Starti amp()	to start pump	to start pump	lassea
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is : S1	State is : S1	
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
1.0.0.0,5.07	Activate	Activate	lassea
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	Return Value is0	Return Value is0	
	State is : S1	State is : S1	
PayCredit()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Reject()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Cancel()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Approved()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Paycash(5)	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Regular()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Super()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Diesel()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
StartPump()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
NoReceipt()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
Receipt()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	

TurnOff()	Return Value is0	Return Value is0	Passed
	State is : S1	State is : S1	
StopPump()	You selected stop	You selected stop	Passed
	pump	pump	
	PUMP STOPPED.	PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
Activate(4.0,6.0,3.0)	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
PayCredit()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Reject()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Cancel()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Approved()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Paycash(5)	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Regular()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Super()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Diesel()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
StartPump()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
PumpLiter()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
StopPump()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
TurnOff()	Return Value is0	Return Value is0	Passed
	State is : S6	State is : S6	
Receipt()	You selected	You selected	Passed
	reciept	reciept	
	RECEIPT IS PRINTED:	RECEIPT IS PRINTED:	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	0	0	

	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : Exit	State is : Exit	

This test case is to cover all ghost transitions for state 1 and state 6. The methods returning the value 0 are default/ghost transitions and methods returning value 1 are used for change of state.

Test#30 - Activate(4.0,6.0,3.0),PayCash(4),Regular(),StartPump(),StartPump(),Regular(),Super(), Diesel(), PayCredit(), PayCash(4), Approved(), Reject(), Cancel(), NoReceipt(),TurnOff(), Activate(2,3,4) StopPump(), NoReceipt(),TurnOff()

Actions	Expected Output	Actual Output	Result
Activate(4.0,6.0,3.0)	You selected	You selected	Passed
	Activate	Activate	
	Enter regular price	Enter regular price	
	4	4	
	Enter super price	Enter super price	
	6	6	
	Enter diesel price	Enter diesel price	
	3	3	
	GAS PUMP IS ON	GAS PUMP IS ON	
	Return Value is1	Return Value is1	
	State is : S0	State is : S0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 0.0	Cash: 0.0	
	Total Cost: 0.0	Total Cost: 0.0	

	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCash(4)	SELECT TYPE OF	SELECT TYPE OF	
raycasii(4)	GASOLINE:	GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	Passed
	Return Value is1	Return Value is1	rasseu
	State is: S3	State is: S3	
	State is . 33	State is . 33	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 0.0	Selected Price: 0.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Regular()	You selected	You selected Regular	Passed
riegular ()	Regular type	type	, assea
	REGULAR IS	REGULAR IS SELECTED.	
	SELECTED.	Return Value is1	
	Return Value is1	State is : S4	
	State is : S4		
		Values of Variables	
	Values of Variables	Rprice: 4.0	
	Rprice: 4.0	Sprice: 6.0	
	Sprice: 6.0	Dprice: 3.0	
	Dprice: 3.0	w: 0	
	w: 0	Selected Price: 4.0	
	Selected Price: 4.0	Cash: 4.0	
	Cash: 4.0	Total Cost: 0.0	
	Total Cost: 0.0	Total Gasoline	
	Total Gasoline	pumped: 0.0	
	pumped: 0.0		
StartPump()	You have selected	You have selected to	Passed
	to start pump	start pump	
	PUMP IS READY TO	PUMP IS READY TO	
	DISPOSE	DISPOSE	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	

	O TOTAL CHARGE: \$0.0 Return Value is1 State is: S5 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	O TOTAL CHARGE: \$0.0 Return Value is1 State is : S5 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
StartPump()	State is: S5 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	State is: S5 Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Passed
Regular()	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Passed

Super()	State is : S5	State is : S5	Passed
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Diesel()	State is : S5	State is : S5	Passed
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
PayCredit()	State is : S5	State is : S5	Passed
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0 Total Gasoline	Total Cost: 0.0	
	pumped: 0.0	Total Gasoline pumped: 0.0	
PayCash(4)	State is : S5	State is : S5	Passed

	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
Approved()	State is : S5	State is : S5	Passed
	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
Reject()	State is : S5	State is : S5	Passed
	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	Values of Variables Rprice: 4.0 Sprice: 6.0 Dprice: 3.0 w: 0 Selected Price: 4.0 Cash: 4.0 Total Cost: 0.0 Total Gasoline pumped: 0.0	
Cancel()	State is : S5	State is : S5	Passed
	Values of Variables	Values of Variables	

		1	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
	pumped. 0.0	pumpea. V.V	
NoReceipt()	State is : S5	State is : S5	Passed
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Receipt()	State is : S5	State is : S5	Passed
	Walana a C Wandahila a	Walana a C Wani akila a	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	State is : S5	State is : S5	Passed
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
		•	
	w: 0	w: 0	

	I		
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
Activate(2,3,4)	State is : S5	State is : S5	Passed
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
StopPump()	You selected stop	You selected stop	Passed
Stopi ump()	•	· ·	1 83300
	pump PUMP STOPPED.	pump PUMP STOPPED.	
	# OF LITERS PUMPED:	# OF LITERS PUMPED:	
	TOTAL CHARGE & A. A.	TOTAL CHARGE: #0.0	
	TOTAL CHARGE: \$0.0	TOTAL CHARGE: \$0.0	
	\$4.0 OF CASH IS	\$4.0 OF CASH IS	
	RETURNED	RETURNED	
	DO YOU WANT A	DO YOU WANT A	
	RECEIPT?	RECEIPT?	
	Return Value is1	Return Value is1	
	State is : S6	State is : S6	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
NoReceipt()	You selected No	You selected No	Passed
, .,	reciept	reciept	
	NO RECEIPT IS	NO RECEIPT IS	
	WESTELL TO	110 VECETI I TO	L

			ı
	PRINTED	PRINTED	
	Return Value is1	Return Value is1	
	State is : S0	State is : 0	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	
TurnOff()	You selected Turn	You selected Turn	Passed
	Off	Off	
	GAS PUMP IS TURNED	GAS PUMP IS TURNED	
	OFF	OFF	
	Return Value is1	Return Value is1	
	State is : eXIT	State is : Exit	
	Values of Variables	Values of Variables	
	Rprice: 4.0	Rprice: 4.0	
	Sprice: 6.0	Sprice: 6.0	
	Dprice: 3.0	Dprice: 3.0	
	w: 0	w: 0	
	Selected Price: 4.0	Selected Price: 4.0	
	Cash: 4.0	Cash: 4.0	
	Total Cost: 0.0	Total Cost: 0.0	
	Total Gasoline	Total Gasoline	
	pumped: 0.0	pumped: 0.0	

This test case is to cover all ghost transitions for state 5. The methods returning the value 0 are default/ghost transitions and methods returning value 1 are used for change of state

Source code of the *GasPump* class with testing oriented methods Testing related methods

```
getPrice()
This would get the price of the type of gasoline which user selects
getTotal()
This would provide us with the total amout spent on buying gas till now
getRegularPrice()
The would get us the gasoline price of Regular Category
getSuperPrice()
The would get us the gasoline price of Super Category
getDeiselPrice()
The would get us the gasoline price of Deisel Category
getNumberOfGallons()
This would tell us the number of gallons which has been pumped
getCash()
This will tell the amount of cash inserted when paid via cash.
getW()
This will tell us weather we paid by cash or credit
GasPump class source code
public class GasPump {
      private float Rprice;
      private float Sprice;
      private float Dprice;
      private int w;
      private float price;
      private int L;
      private float total;
      private float cash;
      private int k;
      public GasPump() {
             Rprice = 0;
             Sprice = 0;
             Dprice = 0;
```

W = 0;

```
price = 0;
     L = 0;
     total = 0;
     cash = 0;
     k = -1;
}
public float getPrice(){
     return price;
}
public float getTotal(){
     return total;
}
public float getRegularPrice(){
     return Rprice;
}
public float getSuperPrice(){
     return Sprice;
public float getDieselPrice(){
     return Dprice;
}
public float getNumberOfGallons(){
     return L;
}
public float getCash(){
     return cash;
}
public int getW(){
     return w;
}
public int State(){
     int s = k;
     if(k==5 && w==1)
     {
```

```
s = 1;
     }
     return s;
}
public final int Activate(float a, float b, float d) {
     if ((k == -1) \&\& (a > 0) \&\& (b > 0) \&\& (d > 0)) {
           k = 0;
           Rprice = a;
           Sprice = b;
           Dprice = d;
           System.out.print("GAS PUMP IS ON");
           System.out.print("\n");
           return 1;
     } else {
           return 0;
     }
}
public final int PayCredit() {
     if (k == 0) {
           k = 2;
           System.out.print("CHECKING CREDIT CARD.");
           System.out.print("\n");
           return 1;
     } else {
           return 0;
     }
}
public final int Reject() {
     if (k == 2) {
           k = 0;
           System.out.print("CREDIT CARD IS REJECTED.");
           System.out.print("\n");
           return 1;
     } else {
           return 0;
     }
}
public final int Cancel() {
```

```
if ((k == 3) | | (k == 4)) {
           k = 0;
           System.out.print("TRANSACTION IS CANCELLED.");
           System.out.print("\n");
           if (w == 0) {
                 System.out.print("$");
                 System.out.print(cash);
                 System.out.print(" OF CASH IS RETURNED");
                 System.out.print("\n");
           }
           return 1;
     } else {
           return 0;
     }
}
public final int Approved() {
     if (k == 2) {
           k = 3;
           w = 1;
           System.out.print("CREDIT CARD APPROVED.");
           System.out.print("\n");
           System.out.print("SELECT TYPE OF GASOLINE:");
           System.out.print("\n");
           System.out.print("a. REGULAR");
           System.out.print("\n");
           System.out.print("b. SUPER");
           System.out.print("\n");
           System.out.print("c. DIESEL");
           System.out.print("\n");
           return 1;
     } else {
           return 0;
     }
}
public final int PayCash(float c) {
     if ((k == 0) \&\& (c > 0)) {
           k = 3;
           W = 0;
           cash = c;
           System.out.print("SELECT TYPE OF GASOLINE:");
           System.out.print("\n");
           System.out.print("a. REGULAR");
```

```
System.out.print("\n");
           System.out.print("b. SUPER");
           System.out.print("\n");
           System.out.print("c. DIESEL");
           System.out.print("\n");
           return 1;
     } else {
           return 0;
     }
}
public final int Regular() {
     if (k == 3) {
           k = 4;
           System.out.print("REGULAR IS SELECTED.");
           System.out.print("\n");
           price = Rprice;
           return 1;
     } else {
           return 0;
     }
}
public final int Super() {
     if (k == 3) {
           k = 4;
           System.out.print("SUPER IS SELECTED.");
           System.out.print("\n");
           price = Sprice;
           return 1;
     } else {
           return 0;
     }
}
public final int Diesel() {
     if (k == 3) {
           k = 4;
           System.out.print("DIESEL IS SELECTED.");
           System.out.print("\n");
           price = Dprice;
           return 1;
     } else {
           return 0;
```

```
}
     }
     public final int StartPump() {
           if (k == 4) {
                 k = 5;
                 L = 0;
                 total = 0;
                 System.out.print("PUMP IS READY TO DISPOSE ");
                 System.out.print("\n");
                System.out.print("# OF LITERS PUMPED: ");
                 System.out.print(L);
                System.out.print("\n");
                 System.out.print("TOTAL CHARGE: $");
                 System.out.print(total);
                 System.out.print("\n");
                return 1;
           } else {
                 return 0;
           }
     }
     public final int PumpLiter() {
           if (k == 5) {
                if ((w == 1) || ((cash >= price * (L + 1)) && (w ==
0))) {
                      L = L + 1;
                      total = L * price;
                      System.out.print("# OF LITERS PUMPED: ");
                      System.out.print(L);
                      System.out.print("\n");
                      System.out.print("TOTAL CHARGE: $");
                      System.out.print(total);
                      System.out.print("\n");
                      System.out.print("CONTINUE PUMPING");
                      System.out.print("\n");
                      return 1;
                else\ if\ ((w == 0) \&\&\ (cash < price * (L + 1))) {
                      k = 6;
                      System. out. print("PUMP STOPPED. NOT SUFFICIENT
FUNDS. ");
                      System.out.print("\n");
                      System.out.print("# OF LITERS PUMPED: ");
                      System.out.print(L);
```

```
System.out.print("\n");
                 System.out.print("TOTAL CHARGE: $");
                 System.out.print(total);
                 System.out.print("\n");
                 if ((w == 0) && (total < cash)) {</pre>
                      System.out.print("$");
                      System.out.print(cash - total);
                      System.out.print(" OF CASH IS RETURNED");
                      System.out.print("\n");
                 System.out.print("DO YOU WANT A RECEIPT?");
                 System.out.print("\n");
                 return 1;
           }
     }
     return 0;
}
public final int StopPump() {
     if (k == 5) {
           k = 6;
           System.out.print("PUMP STOPPED. ");
           System.out.print("\n");
           System.out.print("# OF LITERS PUMPED: ");
           System.out.print(L);
           System.out.print("\n");
           System.out.print("TOTAL CHARGE: $");
           System.out.print(total);
           System.out.print("\n");
           if ((w == 0) && (total < cash)) {
                 System.out.print("$");
                 System.out.print(cash - total);
                 System.out.print(" OF CASH IS RETURNED");
                 System.out.print("\n");
           System.out.print("DO YOU WANT A RECEIPT?");
           System.out.print("\n");
           return 1;
     } else {
           return 0;
     }
}
```

```
public final int NoReceipt() {
           if (k == 6) {
                k = 0;
                System.out.print("NO RECEIPT IS PRINTED ");
                System.out.print("\n");
                return 1;
           } else {
                return 0;
           }
     }
     public final int Receipt() {
           if (k == 6) {
                k = 0;
                System.out.print("RECEIPT IS PRINTED: ");
                System.out.print("\n");
                System.out.print("# OF LITERS PUMPED: ");
                System.out.print(L);
                System.out.print("\n");
                System.out.print("TOTAL CHARGE: $");
                System.out.print(total);
                System.out.print("\n");
                return 1;
           } else {
                return 0;
           }
     }
     public final int TurnOff() {
           if (k == 0) {
                k = -2;
                System.out.print("GAS PUMP IS TURNED OFF ");
                System.out.print("\n");
                return 1;
           } else {
                return 0;
           }
     }
}
```

```
TestDriver for gasPump class
import java.io.*;
import java.util.*;
public class TestDriver extends GasPump {
       public static void main(String[] args)throws IOException {
              GasPump g=new GasPump();
              float a,b,d,cash;
              int x;
              //display of my information
              System.out.println("Mallika Kejriwal");
              System.out.println("A20365044");
              System.out.println("CS 525 - Main Project");
              System.out.println("Driver for the GasPump Class");
              Scanner input=new Scanner(System.in);
              int i = 0;
              System.out.println("\n"+"Press enter to continue");
         System.in.read();
              while(i==0)
              //options for user to select
              System.out.println();
              System.out.println("Select option from below");
              System.out.println("1.Activate");
              System.out.println("2.PayCredit");
              System.out.println("3.Reject");
              System.out.println("4.Approved");
              System.out.println("5.PayCash");
              System.out.println("6.Cancel");
              System.out.println("7.Regular");
              System.out.println("8.Super");
              System.out.println("9.Diesel");
              System.out.println("10.StartPump");
              System.out.println("11.PumpLiter");
              System.out.println("12.StopPump");
              System.out.println("13.NoRecipt");
              System.out.println("14.Reciept");
              System.out.println("15.TurnOff");
              System.out.println("");
              System.out.println("");
              System.out.println("Testing Related Methods");
              System.out.println("16.Show_Price");
```

System.out.println("17.Show_Selected_Price");

```
System.out.println("18.Show_State");
     System.out.println("19.Show No of Gallons Pumped");
     System.out.println("20.Get Total");
     System.out.println("21.Payment Method");
     System.out.println("");
     System.out.println("");
     System.out.println("22.Quit Gas Pump Driver");
     x=input.nextInt();
     //switch cases for each input user gives
     switch(x)
     case 1: System.out.println("You selected Activate");
     System.out.println("Enter regular price");
     a = input.nextFloat();
     System.out.println("Enter super price");
     b = input.nextFloat();
     System.out.println("Enter diesel price");
     d = input.nextFloat();
     System.out.println("Return Value is"+g.Activate(a,b,d));
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     case 2:System.out.println("You have selected to pay by credit");
     System.out.println("Return Value is"+g.PayCredit());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     case 3:System.out.println("Your card has been rejected");
     System.out.println("Return Value is"+g.Reject());
     break;
     case 4: System.out.println("Your card is approved");
     System.out.println("Return Value is"+g.Approved());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     case 5: System.out.println("You selected to pay by cash");
     System.out.println("Enter Cash");
     cash = input.nextFloat();
```

```
System.out.println("Return Value is"+g.PayCash(cash));
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break:
     case 6: System.out.println("You selected cancel");
     System.out.println("Return Value is"+g.Cancel());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     case 7: System.out.println("You selected Regular type");
     System.out.println("Return Value is"+g.Regular());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break:
     case 8: System.out.println("You selected Super type");
     System.out.println("Return Value is"+g.Super());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break:
     case 9: System.out.println("You selected Diesel type");
     System.out.println("Return Value is"+g.Diesel());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     case 10: System.out.println ("You have selected to start pump");
     System.out.println("Return Value is"+g.StartPump());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     case 11:System.out.println("You selected pump liter");
     System.out.println("Return Value is"+g.PumpLiter());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     case 12:System.out.println("You selected stop pump ");
     System.out.println("Return Value is"+g.StopPump());
```

```
System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
         System.in.read();
              break;
              case 13: System.out.println("You selected No reciept");
              System.out.println("Return Value is"+g.NoReceipt());
              System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
         System.in.read();
              break;
              case 14: System.out.println("You selected reciept");
              System.out.println("Return Value is"+g.Receipt());
              System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
         System.in.read();
              break;
              case 15: System.out.println("You selected Turn Off");
              System.out.println("Return Value is"+g.TurnOff());
              System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
         System.in.read();
              break;
              //testing oriented method getregularprice , getDieselPrice , getSuperPrice is
called
              case 16: System.out.println("Following are the prices of Gasoline");
              System.out.println("nRegular Price: "+g.getRegularPrice()+"\nSuper Price:
"+g.getSuperPrice()+"\nDeisel Price: "+g.getDieselPrice());
              System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
         System.in.read();
              break;
              //testing oriented method getPrice is called
              case 17: System.out.println("This is the selected gasoline price");
              System.out.println("The price of selected gasoline is "+g.getPrice());
              System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
         System.in.read();
              break;
              //testing oriented method State is called
              case 18: System.out.println("Get State is called ");
              int dt=g.State();
              if (dt == -2)
                      System.out.println("State is : Exit");
```

```
}
     else if (dt == -1)
            System.out.println("State is: Entry");
     }
     else
     {
            System.out.println("State is : " +g.State());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     //testing oriented method getNumberOfGallons is called
     case 19: System.out.println("No of gallons pumped is called");
     System.out.println("Number of Gallons pumped: "+g.getNumberOfGallons());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     //testing oriented method getTotal is called
     case 20: System.out.println("Total is called");
     System.out.println("Total is"+g.getTotal());
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
     break;
     //testing oriented method getW is called
     case 21: System.out.println("Pay by cash/credit is called");
     int method = g.getW();
     if (method == 0)
     {
            System.out.println("Payment mode is : CASH");
     else
            System.out.println("Payment mode is: CREDIT CARD");
     System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
break;
```

```
i = 1;
break;

default: System.out.println("Please enter the valid option");
    System.out.println("\n"+"PRESS ANY KEY TO CONTINUE...");
System.in.read();
break;

}
System.out.println("------");
}
```

Conclusion

I personally feel after the end of this project that the job of tester requires a lot of patience. A little mistake can let a wrong software be out in market and can cause huge loss.

I have successfully presented all the 2 transition sequences and test cases which are presented in test suite have been passed. We generally don't show ghost transitions in our efsm but that doesn't mean they are not suppose to be tested. This project successfully demonstrates all the ghost transitions and tests. All the multiple conditions /branches are successfully identified with justification of why some conditions can never be executed. I have also included a test suit with all the tests being executed step by step and results of variables being displayed.