CS 589

PROJECT

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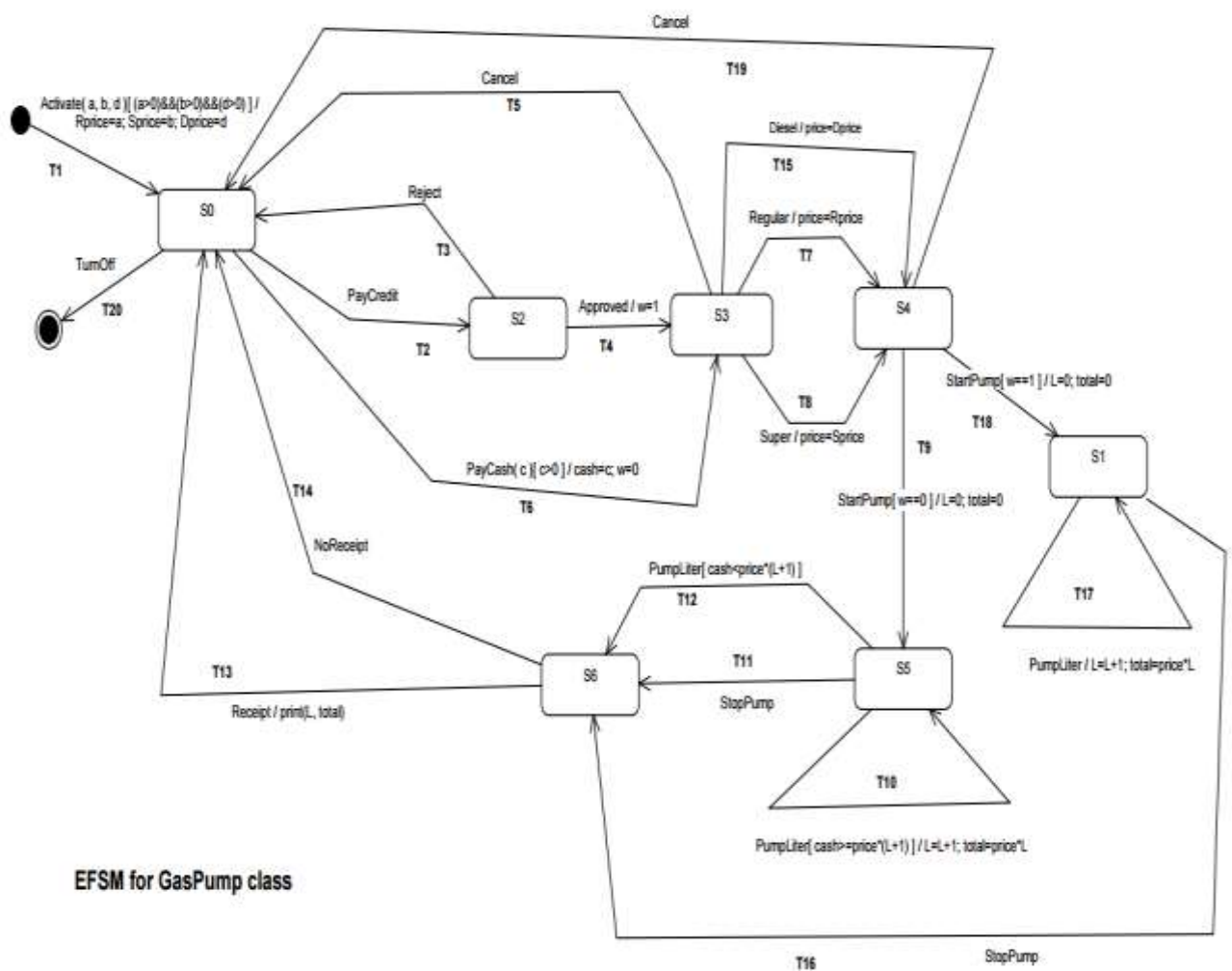**Table Of Contents:**

INTRODUCTION

The aim of this project is to perform the class and model – based testing on the GasPump.java class and design a test suite to perform Transition Pair Testing, Ghost Transition testing and multiple condition testing. A Test Driver also has to be designed for testing purposes.

Test cases for Transition Pair Testing, Default (Ghost) Transition Testing and Multiple Condition Testing have been designed and checked below.

The EFSM for the Gas Pump is given below.

EFSM for GasPump class

1. MODEL BASED TESTING FOR GasPump CLASS:

Model based testing methods are applied on state based models which are drawn from specifications to design Test suites. A state based model can be a Fine state machine, extended finite state machine, virtual finite state machine.

Transition Pair Testing:

A state transition diagram consists of a set of states and transitions. When an Event/Action takes place there occurs a transition from one state to other/itself. In transition pair testing each 'transition pair' must be traversed at least once.
There are total 6 states in the EFSM. The input, output transitions and transition pairs for each state are shown in the table below.

STATE	INPUT TRANSITION	OUTPUT TRANSITION	TRANSITION PAIRS
S0	T1, T19, T5,T3,T4, T13	T20, T2, T6	(T1,T20), (T1,T2), (T1,T6), (T19,T20),(T19,T2), (T19,T6), (T5,T20), (T5,T2), (T5,T6), (T3,T20), (T3,T2), (T3,T6), (T14,T20), (T14,T2),(T14,T6), (T13,T20), (T13,T2),(T13,T6)
S1	T18,T17	T16, T17	(T18,T16), (T18,T17), (T17,T16), (T17,T17)
S2	T2	T3, T4	(T2,T3), (T2,T4)
S3	T4, T6	T5, T15, T7, T8	(T4,T5), (T4,T15), (T4,T7), (T4, T8), (T6,T5), (T6,T15), (T6,T7), (T6,T8)
S4	T7, T8, T15	T19, T18, T9	(T7,T19), (T7,T18), (T7,T9), (T8,T19), (T8,T18), (T8,T9), (T15,T19),(T15,T18),(T15,T9)
S5	T9, T10	T10, T11, T12	(T9,T10), (T9,T11), (T9,T12), (T10,T10),(T10,T11),(T10,T12)
S6	T11, T12, T16	T13, T14	(T11,T13), (T11,T14), (T12,T13), (T12,T14), (T16,T13), (T16,T14)

The following are the states and the input and output transitions along with the test case numbers of the test suite that satisfy the transitions. For the Test cases and the results refer to section 4.
Also, the new transitions covered by each test case are highlighted in Bold.

Test#1: Activate (4.1,5.0,6,0) PayCredit() Approved() Super() StartPump() PumpLiter() StopPump() Receipt() TurnOff()
Transation: T1, T2, T4, T8, T18, T17, T16, T13, T20
Transition Pairs Covered: **(T1,T2), (T2,T4), (T4,T8), (T8,T18), (T18,T17), (T17,T16), (T16,T13), (T13,T20)**

Test#2: Activate(4.1,5.0,6.0) TurnOff()
Transition: T1, T20
Transition Pair Covered: **(T1,T20)**

Test#3: Activate(4.1,5.0,6.0) PayCash(10.0) Cancel() TurnOff()
Transition: T1, T6, T5, T20
Transition Pairs Covered: **(T1,T6)**, **(T6,T5)**, **(T5,T20)**

Test#4: Activate(4.1,5.0,6.0) PayCredit() Approved() Diesel() Cancel() TurnOff()
Transition: T1, T2, T4, T15, T19, T20
Transition Pairs Covered: (T1,T2), (T2,T4), **(T4,T15)**, **(T15,T19)**, **(T19,T20)**

Test#5: Activate(4.1,5.0,6.0) PayCredit() Approved() Regular() Cancel() PayCredit() Reject() TurnOff()
Transition: T1, T2, T4, T7, T19, T2, T3, T20
Transition Pairs Covered: (T1,T2), (T2,T4), **(T4,T7)**, **(T7,T19)**, **(T19,T2)**, **(T2,T3)**, **(T3,T20)**

Test#6: Activate(4.1,5.0,6.0) PayCredit() Approved() Super() Cancel() PayCash(10.0) Cancel() TurnOff()
Transition: T1, T2, T4, T8, T19, T6, T5, T20
Transition Pairs Covered: (T1,T2), (T2,T4), (T4,T8), **(T8,T19)**, **(T19,T6)**, (T6,T5), (T5,T20)

Test#7: Activate(4.1,5.0,6.0) PayCash(10.0) Cancel() PayCredit() Approved() Diesel() StartPump() StopPump() NoReceipt() TurnOff()
Transition: T1, T6, T5, T2, T4, T15, T18, T16, T14, T20
Transition Pairs Covered: (T1,T6), (T6,T5), **(T5,T2)**, (T2,T4), (T4,T15), **(T15,T18)**, **(T18,T16)**, **(T16,T14)**, **(T14,T20)**

Test#8: Activate(4.0,5.0,3.0) PayCredit() Approved() Cancel() PayCash(6.0) Diesel() StartPump() PumpLiter() PumpLiter() StopPump() Receipt() TurnOff()
Transition: T1, T2, T4, T5, T6, T15, T9, T10, T10, T11, T13, T20
Transition Pairs Covered: (T1,T2), (T2,T4), **(T4,T5)**, **(T5,T6)**, **(T6,T15)**, **(T15,T9)**, **(T9,T10)**, **(T10,T10)**, **(T10,T11)**, **(T11,T13)**, (T13,T20)

Test#9: Activate(4.1,5.0,6.0) PayCredit() Reject() PayCredit() Reject() TurnOff()
Transition: T1, T2, T3, T2, T3, T20
Transition Pairs Covered: (T1,T2), (T2,T3), **(T3,T2)**, (T2,T3), **(T3,T20)**

Test#10: Activate(4.0,5.0,3.0) PayCredit() Reject() PayCash(3.0) Regular() StartPump() PumpLiter() Receipt() TurnOff()
Transition: T1, T2, T3, T6, T7, T9, T12, T13, T20
Transition Pairs Covered: (T1,T2), (T2,T3), **(T3,T6)**, **(T6,T7)**, **(T7,T9)**, **(T9,T12)**, **(T12,T13)**, (T13,T20)

Test#11: Activate(4.0,5.0,3.0) PayCash(2.0) Super() StartPump() PumpLiter() NoReceipt() PayCredit() Reject() TurnOff()

Transition: T1, T6, T8, T9, T12, T14, T2, T3, T20
Transition Pairs Covered: (T1,T6), **(T6,T8), (T8,T9)**, (T9,T12), **(T12,T14), (T14,T2),** (T2,T3), (T3,T20)

Test#12: Activate(4.1,5.0,6.0) PayCredit() Approved() Regular() StartPump() PumpLiter() PumpLiter() StopPump() NoReceipt() PayCash(10.0) Cancel() TurnOff()
Transition: T1, T2, T4, T7, T18, T17, T17, T16, T14, T6, T5, T20
Transition Pairs Covered: (T1,T2), (T2,T4), (T4,T7), **(T7,T18)**, (T18,T17), **(T17,T17)**, (T17,T16), (T16,T14), **(T14,T6)**, (T6,T5), (T5,T20)

Test#13: Activate(4.0,5.0,3.0) PayCash(6.0) Super() StartPump() PumpLiter() PumpLiter() Receipt() PayCredit() Reject() TurnOff()
Transition: T1, T6, T8, T9, T10, T12, T13, T2, T3, T20
Transition Covered: (T1,T6), (T6,T8), (T8,T9), (T9,T10), **(T10,T12)**, (T12,T13), **(T13,T2)**, (T2,T3), (T3,T20)

Test#14: Activate(4.0,5.0,3.0) PayCash(1.0) Regular() StartPump() StopPump() Receipt() PayCash(4.0) Cancel() TurnOff()
Transition: T1, T6, T7, T9, T11, T13, T6, T5, T20
Transition Pairs Covered: (T1,T6), (T6,T7), (T7,T9), **(T9,T11)**, (T11,T13), **(T13,T6)**, (T6,T5), (T5,T20)

Test#15: Activate(4.1,5.0,6.0) PayCash(10.0) Super() StartPump() PumpLiter() StopPump() NoReceipt() TurnOff()
Transition: T1, T6, T8, T9, T10, T11, T14, T20
Transition Pairs Covered: (T1,T6), (T6,T8), (T8,T9), (T9,T10), (T10,T11), **(T11,T14)**, (T14,T20)

2. TESTING DEFAULT (GHOST) TRANSITIONS FOR GasPump CLASS:

When the default/ghost transitions are executed there is no change in the state and no action is performed. We need to consider states S0, S1, S2, S3, S4, S5, S6. We have 15 operations that need to be tested for each state. The blue font operations in the test case represent Default Transitions.

STATE	Normal	Ghost Transition	TEST #
Start	Activate(a,b,d)	PayCredit(), Reject(), Cancel(), Approved(), PayCash(c), PumpLiter(), StopPump(),NoReceipt() ,Receipt(), TurnOff(),Regular(),Super(),Diesel(), Startpump(),	Test#16
S0	TurnOff() PayCredit() PayCash(c)	Activate(a,b,d),Reject(), Approved(), Cancel(), Paycash(-c), Regular(), Super(), Diesel(), StartPump(), PumpLiter(), StopPump(), NoReceipt(), Receipt(),	Test#16
S1	PumpLiter() StopPump()	StartPump(), Activate(a,b,d), PayCredit(), Reject(), Cancel(), Approved(), TurnOff(), Regular(), Super(), Diesel(), PayCash(c), Receipt(), NoReceipt(),	Test#17
S2	Reject() Approved()	PayCredit(), Activate(a,b,d), Super(), Diesel(), StartPump(), Cancel(), Paycash(c), Regular(),PumpLiter(), StopPump(), NoReceipt(), Receipt(),TurnOff(),	Test#18
S3	Diesel() Super() Regular() Cancel()	Activate(a,b,d), PayCredit(), PayCash(c), StartPump(), PumpLiter(), StopPump(), Receipt(), NoReceipt(), TurnOff(), Reject(), Approved()	Test#19
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#20
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<price*(L+1)}])	Test#21
S6	NoReceipt() Receipt()	Activate(a,b,d), PayCredit(), Reject(), Cancel(), Approved(),TurnOff(), Startpump(), PumpLiter(), StopPump(),PayCash(c), Regular(),Super(),Diesel(),	Test#22

Test Cases:

Start and State S0:
Test#16: PayCredit() Reject() Cancel() Approved() PayCash(5.0) Regular() Super() Diesel() Startpump() PumpLiter() StopPump() NoReceipt() Receipt() TurnOff() Activate(4.1,5.0,6.0) Activate(4.0,5.0,8.0) PayCash (-10.0) Reject() Cancel() Approved() Regular() Super() Diesel() StartPump() PumpLiter() StopPump() NoReceipt() Receipt() PayCash(10.0) Cancel() TurnOff()

State S1:
Test#17: Activate(4.1,5.0,6.0) PayCredit() Approved() Diesel() StartPump() Activate(2.0,3.0,4.0) PayCredit() Reject() Cancel() StartPump() Approved() PayCash(20.0) Regular() Super() Diesel() PumpLiter() StopPump() Receipt() TurnOff()

State S2:
Test#18: Activate(4.1,5.0,6.0) PayCredit() Activate(4.0,5.0,6.0) PayCredit() PayCash(2.0) Cancel() Regular() Super() Diesel StartPump() PumpLiter() StopPump() NoReceipt() Receipt() TurnOff() Reject() TurnOff()

State S3:
Test#19: Activate(4.1,5.0,6.0) PayCash(10.0) Activate(2.0,3.0,5.0) PayCredit() Reject() Approved() PayCash(4.0) StartPump() PumpLiter() StopPump() Receipt() NoReceipt() TurnOff() Cancel() TurnOff()

State S4:
Test#20: Activate(4.1,5.0,6.0) PayCredit() Approved() Diesel() Activate(2.0,3.0,4.0) PayCredit() Approved() Reject() PayCash(3.0) Regular() Super() Diesel() PumpLiter() StopPump() Receipt() NoReceipt() TurnOff() StartPump() StopPump() Receipt() TurnOff()

State S5:
Test#21: Activate(4.1,5.0,6.0) PayCash(20.0) Super() StartPump() Activate(2.0,3.0,4.0) PayCredit() Reject() Cancel() Approved() PayCash(3.0) Regular() Super() Diesel() StartPump() Receipt() NoReceipt() TurnOff() PumpLiter() StopPump() Receipt() TurnOff()

State S6:
Test#22: Activate(4.1,5.0,6.0) PayCredit() Approved() Diesel() StartPump() StopPump() Activate(2.0,3.0,4.0) PayCredit() Approved() Reject() Cancel() PayCash(3.0) Regular() Super() Diesel() StartPump() PumpLiter() StopPump() TurnOff() Receipt() TurnOff()

3. MULTIPLE CONDITION TESTING FOR GasPump CLASS

Multiple Condition Testing is the testing of conditional statements with **complex predicates** (and/or). We then test all the combinations of simple predicates obtained from complex predicates.
Some predicates below are impossible to execute. The justifications for these conditions are mentioned from R1-R11

Method: Activate(float a, float b, float d)

if ((k == -1) && (a > 0) && (b > 0) && (d > 0))

k==-1	a>0	b>0	d>0	Test Cases
T	T	T	T	Test#23
T	T	T	F	Test#23
T	T	F	T	Test#23
T	T	F	F	Test#23
T	F	T	T	Test#23
T	F	T	F	Test#23
T	F	F	T	Test#23
T	F	F	F	Test#23
F	T	T	T	Test#24
F	T	T	F	Test#24
F	T	F	T	Test#24
F	T	F	F	Test#24
F	F	T	T	Test#24
F	F	T	F	Test#24
F	F	F	T	Test#24
F	F	F	F	Test#24

Method: PayCredit()

if (k == 0)

k==0	Test Cases
T	Test#23
F	Test#25

Method: Reject()

if (k == 2)

k==2	Test Cases
T	Test#23
F	Test#26

Method: Cancel()

if ((k == 3) || (k == 4))

k==3	k==4	Test Cases
T	T	Impossible(R1)
T	F	Test#24
F	T	Test#26
F	F	Test#27

R1: the value of variable k can be 3 and 4 at one time, not both.

if (w == 0)

w==0	Test Cases
T	Test#24
F	Test#26

Method: Approved()

if (k == 2)

k==2	Test Cases
T	Test#26
F	Test#27

Method: PayCash(float c)

if ((k == 0) && (c > 0))

k==0	c>0	Test Cases
T	T	Test#24
T	F	Test#25
F	T	Test#28
F	F	Test#28

Method: Regular()

if (k == 3)

k==3	Test Cases
T	Test#25
F	Test#27

Method: Super()

if (k == 3)

k==3	Test Cases
T	Test#27
F	Test#27

Method: Diesel()

if (k == 3)

k==3	Test Cases
T	Test#26
F	Test#27

Method: StartPump()

if (k == 4)

k==4	Test Cases
T	Test#25
F	Test#28

Method: PumpLiter()

if (k == 5)

k==5	Test Cases
T	Test#25
F	Test#28

if ((w == 1) || ((cash >= price * (L + 1)) && (w == 0)))

w==1	cash>= price * (L+1)	w==0	Test Cases
T	T	T	Impossible(R2)
T	T	F	Test#33
T	F	T	Impossible(R3)
T	F	F	Test#28
F	T	T	Test#25
F	T	F	Impossible(R4)
F	F	T	Test#29
F	F	F	Impossible(R5)

R2: The value of variable w can be 0 or 1 at any particular time, not both.
R3: The value of variable w can be 0 or 1 at any particular time, not both.
R4: The value of variable w should be either 1 or 0. To PumpLiter we need the payment by either cash or card.
R5: The value of variable w should be either 1 or 0. To PumpLiter we need the payment by either cash or card.

else if ((w == 0) && (cash < price * (L + 1)))

w==0	cash < price * (L+1)	Test Cases
T	T	Test#25
T	F	Impossible(R6)
F	T	Impossible(R7)
F	F	Impossible(R8)

R6: The value of variable w=0 → PayCash is chosen. So, the cash cannot be less than price*(L+1)

R7: The value of variable w is not equal to 0, therefore it will be a PayCredit method and cash cannot be less than price*(L+1)

R8: The value of variable w is not equal to 0, therefore it will be a PayCredit method and cash cannot be less than price*(L+1)

if ((w == 0) && (total < cash))

w==0	total < cash	Test Cases
T	T	Test#25
T	F	Test#30
F	T	Impossible(R9)
F	F	Impossible(R10)

R9: The value of variable w is not equal to 0, therefore PayCredit method. It won't enter the above else if loop {else if ((w == 0) && (cash < price * (L + 1)))} and therefore won't reach this if loop

R10: The value of variable w is not equal to 0, therefore PayCredit method. It won't enter the above else if loop {else if ((w == 0) && (cash < price * (L + 1)))} and therefore won't reach this if loop

Method: StopPump()

if (k == 5)

k==5	Test Cases
T	Test#28
F	Test#25

if ((w == 0) && (total < cash))

w==0	total < cash	Test Cases
T	T	Test#31
T	F	Test#32
F	T	Impossible(R12)
F	F	Test#28

R12: If the value of variable w=0 is false, it is PayCredit method where cash=0. Here total < cash is true and total cannot be less than cash

Method: NoReceipt()

if (k == 6)

k==6	Test Cases
T	Test#28
F	Test#30

Method: Receipt()

if (k == 6)

k==6	Test Cases
T	Test#25
F	Test#30

Method: TurnOff()

if (k == 0)

k==6	Test Cases
T	Test#23
F	Test#28

Test Cases:

Test#23: Activate(4.5,5.5,-6.6) Activate(4.5,-5.5,6.6) Activate(4.5,-5.5,-6.6) Activate(-4.5,5.5,6.6) Activate(-4.5,5.5,-6.6) Activate(-4.5,-5.5,6.6) Activate(-4.5,-5.5,-6.6) Activate(4.5,5.5,6.6) PayCredit() Reject() TurnOff()

Test#24: Activate(4.5,5.5,6.6) PayCash(10.0) Cancel() Activate(4.5,5.5,6.6) Activate(4.5,5.5,-6.6) Activate(4.5,-5.5,6.6) Activate(4.5,-5.5,-6.6) Activate(-4.5,5.5,6.6) Activate(-4.5,5.5,-6.6) Activate(-4.5,-5.5,6.6) Activate(-4.5,-5.5,-6.6) TurnOff()

Test#25: Activate(4.5,5.5,6.6) PayCash(-10.0) PayCash(5.0) PayCredit() Regular() StartPump() PumpLiter() StopPump() Receipt() TurnOff()

Test#26: Activate(4.5,5.5,6.6) Reject() PayCredit() Approved() Diesel() Cancel() TurnOff()

Test#27: Activate(4.5,5.5,6.6) Approved() PayCredit() Cancel() Approved() Super() Super() Diesel() Regular() Cancel() TurnOff()

Test#28: Activate(4.5,5.5,6.6) PayCredit() PayCash(-5.0) PayCash(5.0) Approved() Super() PumpLiter() StartPump() PumpLiter() StartPump() StopPump() TurnOff() NoReceipt() TurnOff()

Test#29: Activate(2.0,3.0,4.0) PayCash(1.0) Regular() StartPump() PumpLiter() StopPump() Receipt() TurnOff()

Test#30: Activate(4.0,5.0,6.0) Receipt() NoReceipt() PayCash(7.0) Diesel() StartPump() PumpLiter() PumpLiter() Receipt() TurnOff()

Test#31: Activate(2.0,3.0,4.0) PayCash(10.0) Regular() Start() PumpLiter() StopPump() Receipt() TurnOff()

Test#32: Activate(2.0,3.0,4.0) PayCash(3.0) Super() StartPump() PumpLiter() StopPump() Receipt() TurnOff()

Test#33: Activate(2.0,3.0,4.0) PayCash(10) Cancel() PayCredit() Approved() Regular() StartPump() PumpLiter() PumpLiter() StopPump() Receipt() TurnOff()

4. TEST SUIT AND RESULT OF ITS EXECUTION

TEST SUIT

Test#1: Activate 4.1 5.0 6.0 PayCredit Approved Super StartPump PumpLiter StopPump Receipt TurnOff

Test#2: Activate 4.1 5.0 6.0 TurnOff

Test#3: Activate 4.1 5.0 6.0 PayCash 10.0 Cancel TurnOff

Test#4: Activate 4.1 5.0 6.0 PayCredit Approved Diesel Cancel TurnOff

Test#5: Activate 4.1 5.0 6.0 PayCredit Approved Regular Cancel PayCredit Reject TurnOff

Test#6: Activate 4.1 5.0 6.0 PayCredit Approved Super Cancel PayCash 10.0 Cancel TurnOff

Test#7: Activate 4.1 5.0 6.0 PayCash 10.0 Cancel PayCredit Approved Diesel StartPump StopPump NoReceipt TurnOff

Test#8: Activate 4.0 5.0 3.0 PayCredit Approved Cancel PayCash 6.0 Diesel StartPump PumpLiter PumpLiter StopPump Receipt TurnOff

Test#9: Activate 4.1 5.0 6.0 PayCredit Reject PayCredit Reject TurnOff

Test#10: Activate 4.0 5.0 3.0 PayCredit Reject PayCash 3.0 Regular StartPump PumpLiter Receipt TurnOff

Test#11: Activate 4.0 5.0 3.0 PayCash 2.0 Super StartPump PumpLiter NoReceipt PayCredit Reject TurnOff

Test#12: Activate 4.1 5.0 6.0 PayCredit Approved Regular StartPump PumpLiter PumpLiter StopPump NoReceipt PayCash 10.0 Cancel TurnOff

Test#13: Activate 4.0 5.0 3.0 PayCash 6.0 Super StartPump PumpLiter PumpLiter Receipt PayCredit Reject TurnOff

Test#14: Activate 4.0 5.0 3.0 PayCash 1.0 Regular StartPump StopPump Receipt PayCash 4.0 Cancel TurnOff

Test#15: Activate 4.1 5.0 6.0 PayCash 10.0 Super StartPump PumpLiter StopPump NoReceipt TurnOff

Test#16: PayCredit Reject Cancel Approved PayCash 5.0 Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt TurnOff Activate 4.1 5.0 6.0 Activate 4.0 5.0 8.0 PayCash -10.0 Reject Cancel Approved Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt PayCash 10.0 Cancel TurnOff

Test#17: Activate 4.1 5.0 6.0 PayCredit Approved Diesel StartPump Activate 2.0 3.0 4.0 PayCredit Reject Cancel StartPump Approved PayCash 20.0 Regular Super Diesel PumpLiter StopPump Receipt TurnOff

Test#18: Activate 4.1 5.0 6.0 PayCredit Activate 4.0 5.0 6.0 PayCredit PayCash 2.0 Cancel Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt TurnOff Reject TurnOff

Test#19: Activate 4.1 5.0 6.0 PayCash 10.0 Activate 2.0 3.0 5.0 PayCredit Reject Approved PayCash 4.0 StartPump PumpLiter StopPump Receipt NoReceipt TurnOff Cancel TurnOff

Test#20: Activate 4.1 5.0 6.0 PayCredit Approved Diesel Activate 2.0 3.0 4.0 PayCredit Approved Reject PayCash 3.0 Regular Super Diesel PumpLiter StopPump Receipt NoReceipt TurnOff StartPump StopPump Receipt TurnOff

Test#21: Activate 4.1 5.0 6.0 PayCash 20.0 Super StartPump Activate 2.0 3.0 4.0 PayCredit Reject Cancel Approved PayCash 3.0 Regular Super Diesel StartPump Receipt NoReceipt TurnOff PumpLiter StopPump Receipt TurnOff

Test#22: Activate 4.1 5.0 6.0 PayCredit Approved Diesel StartPump StopPump Activate 2.0 3.0 4.0 PayCredit Approved Reject Cancel PayCash 3.0 Regular Super Diesel StartPump PumpLiter StopPump TurnOff Receipt TurnOff

Test#23: Activate 4.5 5.5 -6.6 Activate 4.5 -5.5 6.6 Activate 4.5 -5.5 -6.6 Activate -4.5 5.5 6.6 Activate -4.5 5.5 -6.6 Activate -4.5 -5.5 6.6 Activate -4.5 -5.5 -6.6 Activate 4.5 5.5 6.6 PayCredit Reject TurnOff

Test#24: Activate 4.5 5.5 6.6 PayCash 10.0 Cancel Activate 4.5 5.5 6.6 Activate 4.5 5.5 -6.6 Activate 4.5 -5.5 6.6 Activate 4.5 -5.5 -6.6 Activate -4.5 5.5 6.6 Activate -4.5 5.5 -6.6 Activate -4.5 -5.5 6.6 Activate -4.5 -5.5 -6.6 TurnOff
Test#25: Activate 4.5 5.5 6.6 PayCash -10.0 PayCash 5.0 PayCredit Regular StartPump PumpLiter StopPump Receipt TurnOff

Test#26: Activate 4.5 5.5 6.6 Reject PayCredit Approved Diesel Cancel TurnOff

Test#27: Activate 4.5 5.5 6.6 Approved PayCredit Cancel Approved Super Super Diesel Regular Cancel TurnOff

Test#28: Activate 4.5 5.5 6.6 PayCredit PayCash -5.0 PayCash 5.0 Approved Super PumpLiter StartPump PumpLiter StartPump StopPump TurnOff NoReceipt TurnOff

Test#29: Activate 2.0 3.0 4.0 PayCash 1.0 Regular StartPump PumpLiter StopPump Receipt TurnOff

Test#30: Activate 4.0 5.0 6.0 Receipt NoReceipt PayCash 7.0 Diesel StartPump PumpLiter PumpLiter Receipt TurnOff

Test#31: Activate 2.0 3.0 4.0 PayCash 10.0 Regular StartPump PumpLiter StopPump Receipt TurnOff

Test#32: Activate 2.0 3.0 4.0 PayCash 3.0 Super StartPump PumpLiter StopPump Receipt TurnOff

Test#33: Activate 2.0 3.0 4.0 PayCash 10.0 Cancel PayCredit Approved Regular StartPump PumpLiter PumpLiter StopPump Receipt TurnOff
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RESULT OF TEST SUIT EXECUTION:
(After every event testing oriented methods are called for checking.)

Test#1: Activate 4.1 5.0 6.0 PayCredit Approved Super StartPump PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Result
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5 Enter D Price: 6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed

Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S1	Passed

	Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1		
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $5.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed

Test#2: Activate 4.1 5.0 6.0 TurnOff

Event	Expected Output	Actual Output	Result
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#3: Activate 4.1 5.0 6.0 PayCash 10.0 Cancel TurnOff

Event	Expected Output	Actual Output	Result
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON	Passed

	The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCash 10.0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#4: Activate 4.1 5.0 6.0 PayCredit Approved Diesel Cancel TurnOff

Event	Expected Output	Actual Output	Result
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Event	Expected Output	Actual Output	Results
Diesel	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Test#5: Activate 4.1 5.0 6.0 PayCredit Approved Regular Cancel PayCredit Reject TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price:	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price:	Passed

	6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class	GasPump Class	Passed

	Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Test#6: Activate 4.1 5.0 6.0 PayCredit Approved Super Cancel PayCash 10.0 Cancel TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $5.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PayCash 10.0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0	Passed

	Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#7: Activate 4.1 5.0 6.0 PayCash 10.0 Cancel PayCredit Approved Diesel StartPump StopPump NoReceipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 10.0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER	Passed

	c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	Passed

Diesel	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $10.0	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $10.0	Passed

Event	Expected Output	Actual Output	Results
	w: 1 No. of Gallons Pumped: 0	w: 1 No. of Gallons Pumped: 0	
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	Passed

Test#8: Activate 4.0 5.0 3.0 PayCredit Approved Cancel PayCash 6.0 Diesel StartPump PumpLiter PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.0 5.0 3.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed

Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PayCash 6.0	GasPump Class PayCash(float c) Enter Cash 6.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 6.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method DIESEL IS SELECTED.	GasPump Class Diesel() method DIESEL IS SELECTED.	Passed

	The returned value is: 1 State: S4 Price: $3.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 1 State: S4 Price: $3.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $3.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $3.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $3.0 Total: $3.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $3.0 Total: $3.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 2 TOTAL CHARGE: $6.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	GasPump Class PumpLiter() method # OF LITRES PUMPED: 2 TOTAL CHARGE: $6.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	Passed
StopPump	GasPump Class	GasPump Class	Passed

	StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 2 TOTAL CHARGE: $6.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 2 TOTAL CHARGE: $6.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 2 TOTAL CHARGE: $6.0 The returned value is: 1 State: S0 Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 2 TOTAL CHARGE: $6.0 The returned value is: 1 State: S0 Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $3.0 Total: $6.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 2	Passed

Test#9: Activate 4.1 5.0 6.0 PayCredit Reject PayCredit Reject TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1	Passed

	Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method	GasPump Class Reject() method	Passed

Event	Expected Output	Actual Output	Results
	CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#10: Activate 4.0 5.0 3.0 PayCredit Reject PayCash 3.0 Regular StartPump PumpLiter Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.0 5.0 3.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD.	GasPump Class PayCredit() method CHECKING CREDIT CARD.	Passed

	The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Reject	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 3.0	GasPump Class PayCash(float c) Enter Cash 3.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 3.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method	GasPump Class StartPump() method	Passed

	PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	
PumpLiter	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 $3.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 $3.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $4.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.0	Passed

| | Total: $0.0
Cash: $3.0
w: 0
No. of Gallons Pumped: 0 | Total: $0.0
Cash: $3.0
w: 0
No. of Gallons Pumped: 0 | |

Test#11: Activate 4.0 5.0 3.0 PayCash 2.0 Super StartPump PumpLiter NoReceipt PayCredit Reject TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.0 5.0 3.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 2.0	GasPump Class PayCash(float c) Enter Cash 2.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 2.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method SUPER IS SELECTED.	GasPump Class Super() method SUPER IS SELECTED.	Passed

	The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 $2 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 $2 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	Passed

Event	Expected Output	Actual Output	Results
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $0.0 Cash: $2.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#12: Activate 4.1 5.0 6.0 PayCredit Approved Regular StartPump PumpLiter PumpLiter StopPump NoReceipt PayCash 10.0 Cancel TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price:	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price:	Passed

	6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class	GasPump Class	Passed

	StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $4.1 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $4.1 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $4.1 Total: $4.1 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $4.1 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $4.1 Total: $4.1 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 2 TOTAL CHARGE: $8.2 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $4.1 Total: $8.2 Cash: $0.0 w: 1 No. of Gallons Pumped: 2	GasPump Class PumpLiter() method # OF LITRES PUMPED: 2 TOTAL CHARGE: $8.2 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $4.1 Total: $8.2 Cash: $0.0 w: 1 No. of Gallons Pumped: 2	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 2 TOTAL CHARGE: $8.2 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 2 TOTAL CHARGE: $8.2 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6	Passed

	Price: $4.1 Total: $8.2 Cash: $0.0 w: 1 No. of Gallons Pumped: 2	Price: $4.1 Total: $8.2 Cash: $0.0 w: 1 No. of Gallons Pumped: 2	
NoReceipt	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $4.1 Total: $8.2 Cash: $0.0 w: 1 No. of Gallons Pumped: 2	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $4.1 Total: $8.2 Cash: $0.0 w: 1 No. of Gallons Pumped: 2	Passed
PayCash 10.0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $4.1 Total: $8.2 Cash: $10.0 w: 0 No. of Gallons Pumped: 2	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $4.1 Total: $8.2 Cash: $10.0 w: 0 No. of Gallons Pumped: 2	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $4.1 Total: $8.2 Cash: $10.0 w: 0 No. of Gallons Pumped: 2	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $4.1 Total: $8.2 Cash: $10.0 w: 0 No. of Gallons Pumped: 2	Passed
TurnOff	GasPump Class TurnOff() method	GasPump Class TurnOff() method	Passed

	GAS PUMP IS TURNED OFF	GAS PUMP IS TURNED OFF	
	The returned value is: 1	The returned value is: 1	
	State: Exit State	State: Exit State	
	Price: $4.1	Price: $4.1	
	Total: $8.2	Total: $8.2	
	Cash: $10.0	Cash: $10.0	
	w: 0	w: 0	
	No. of Gallons Pumped: 2	No. of Gallons Pumped: 2	

Test#13: Activate 4.0 5.0 3.0 PayCash 6.0 Super StartPump PumpLiter PumpLiter Receipt PayCredit Reject TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.0 5.0 3.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 6.0	GasPump Class PayCash(float c) Enter Cash 6.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $6.0 w: 0	GasPump Class PayCash(float c) Enter Cash 6.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $6.0 w: 0	Passed

	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	Passed
PumpLiter	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 DO YOU WANT A RECEIPT? The returned value is: 1	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 DO YOU WANT A RECEIPT? The returned value is: 1	Passed

	State: S6 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	State: S6 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	Passed
Reject	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $6.0 w: 0 No. of Gallons Pumped: 1	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State	Passed

	Price: $5.0	Price: $5.0	
	Total: $5.0	Total: $5.0	
	Cash: $6.0	Cash: $6.0	
	w: 0	w: 0	
	No. of Gallons Pumped: 1	No. of Gallons Pumped: 1	

Test#14: Activate 4.0 5.0 3.0 PayCash 1.0 Regular StartPump StopPump Receipt PayCash 4.0 Cancel TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.0 5.0 3.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 3.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 1.0	GasPump Class PayCash(float c) Enter Cash 1.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 1.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method	GasPump Class Regular() method	Passed

	REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $4.0 Total: $0.0 Cash: $1.0 w: 0	Passed

	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
PayCash 4.0	GasPump Class PayCash(float c) Enter Cash 4.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $4.0 Total: $0.0 Cash: $4.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 4.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $4.0 Total: $0.0 Cash: $4.0 w: 0 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $4.0 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $4.0 Total: $0.0 Cash: $4.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $4.0 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $4.0 Total: $0.0 Cash: $4.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.0 Total: $0.0 Cash: $4.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.0 Total: $0.0 Cash: $4.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#15: Activate 4.1 5.0 6.0 PayCash 10.0 Super StartPump PumpLiter StopPump NoReceipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0	GasPump Class	GasPump Class	Passed

6.0	Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCash 10.0	GasPump Class PayCash(float c) method Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method	GasPump Class StartPump() method	Passed

	PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $5.0 Total: $5.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $5.0 Total: $5.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 $5.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $5.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 $5.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $5.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	Passed
NoReceipt	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $10.0	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $10.0	Passed

	w: 0 No. of Gallons Pumped: 1	w: 0 No. of Gallons Pumped: 1	
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $5.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $5.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	Passed

Test#16: PayCredit Reject Cancel Approved PayCash 5.0 Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt TurnOff Activate 4.1 5.0 6.0 Activate 4.0 5.0 8.0 PayCash -10.0 Reject Cancel Approved Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt PayCash 10.0 Cancel TurnOff

Event	Expected Output	Actual Output	Results
PayCredit	GasPump Class PayCredit() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0	GasPump Class Cancel() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0	Passed

	Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Approved	GasPump Class Approved() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Approved() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 5.0	GasPump Class PayCash(float c) method Enter Cash 5.0 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 5.0 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Regular() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method	GasPump Class Diesel() method	Passed

		The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
StartPump	GasPump Class StartPump() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
StopPump	GasPump Class StopPump() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StopPump() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0	GasPump Class NoReceipt() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0	Passed

	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
Receipt	GasPump Class Receipt() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Receipt() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 4.0 5.0 8.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0	Passed

	Enter D Price: 8.0 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Enter D Price: 8.0 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCash -10.0	GasPump Class PayCash(float c) Enter Cash -10.0 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash -10.0 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method The returned value is: 0 State: S0 Price: $0.0	GasPump Class Approved() method The returned value is: 0 State: S0 Price: $0.0	Passed

	Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Regular	GasPump Class Regular() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Regular() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Diesel() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method	GasPump Class PumpLiter() method	Passed

	The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
StopPump	GasPump Class StopPump() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StopPump() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class NoReceipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Receipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 10.0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1	Passed

Event	Expected Output	Actual Output	Results
	State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#17: Activate 4.1 5.0 6.0 PayCredit Approved Diesel StartPump Activate 2.0 3.0 4.0 PayCredit Reject Cancel StartPump Approved PayCash 20.0 Regular Super Diesel PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON	Passed

		The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCredit		GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved		GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel		GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump		GasPump Class StartPump() method	GasPump Class StartPump() method	Passed

	PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
Activate 2.0 3.0 4.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5 Enter D Price: 6 The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5 Enter D Price: 6 The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class PayCredit() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Reject() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Cancel	GasPump Class Cancel() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Cancel() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StartPump() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PayCash 20.0	GasPump Class PayCash(float c) Enter Cash 20.0 The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 20.0 The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method The returned value is: 0 State: S1	GasPump Class Regular() method The returned value is: 0 State: S1	Passed

	Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
Super	GasPump Class Super() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method The returned value is: 0 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6	Passed

Event	Expected Output	Actual Output	Results
	Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 The returned value is: 1 State: S0 Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 The returned value is: 1 State: S0 Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $6.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed

Test#18: Activate 4.1 5.0 6.0 PayCredit Activate 4.0 5.0 6.0 PayCredit PayCash 2.0 Cancel Regular Super Diesel StartPump PumpLiter StopPump NoReceipt Receipt TurnOff Reject TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1	Passed

	State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0		
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed	
Activate 4.0 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 6.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 6.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed	
PayCredit	GasPump Class PayCredit() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed	
PayCash 2.0	GasPump Class PayCash(float c)	GasPump Class PayCash(float c)	Passed	

	Enter Cash 2.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Enter Cash 2.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Regular() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0	GasPump Class Diesel() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0	Passed

	w: 0 No. of Gallons Pumped: 0	w: 0 No. of Gallons Pumped: 0	
StartPump	GasPump Class StartPump() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
StopPump	GasPump Class StopPump() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StopPump() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class NoReceipt() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method The returned value is: 0 State: S2	GasPump Class Receipt() method The returned value is: 0 State: S2	Passed

Event	Expected Output	Actual Output	Results
	Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
TurnOff	GasPump Class TurnOff() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#19: Activate 4.1 5.0 6.0 PayCash 10.0 Activate 2.0 3.0 5.0 PayCredit Reject Approved PayCash 4.0 StartPump PumpLiter StopPump Receipt NoReceipt TurnOff Cancel TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price:	GasPump Class Activate(float a,float b,float d) method Enter R Price:	Passed

	4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCash 10.0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 2.0 3.0 5.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 5.0 The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 5.0 The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class	GasPump Class	Passed

	PayCredit() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	PayCredit() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Reject	GasPump Class Reject() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Approved() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 4.0	GasPump Class PayCash(float c) Enter Cash 4.0 The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) Enter Cash 4.0 The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method The returned value is: 0 State: S3 Price: $0.0	GasPump Class StartPump() method The returned value is: 0 State: S3 Price: $0.0	Passed

	Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
PumpLiter	GasPump Class PumpLiter() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
StopPump	GasPump Class StopPump() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StopPump() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Receipt() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class NoReceipt() method The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method	GasPump Class TurnOff() method	Passed

Event	Expected Output	Actual Output	Results
	The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 0 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#20: Activate 4.1 5.0 6.0 PayCredit Approved Diesel Activate 2.0 3.0 4.0 PayCredit Approved Reject PayCash 3.0 Regular Super Diesel PumpLiter StopPump Receipt NoReceipt TurnOff StartPump StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0	Passed

	GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Activate 2.0 3.0 4.0	GasPump Class Activate(float a,float b,float	GasPump Class Activate(float a,float b,float	Passed

	d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
PayCredit	GasPump Class PayCredit() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class PayCredit() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Reject() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PayCash 3.0	GasPump Class PayCash(float c) method	GasPump Class PayCash(float c) method	Passed

	Enter Cash 3.0 The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Enter Cash 3.0 The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
Regular	GasPump Class Regular() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Regular() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0	GasPump Class PumpLiter() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0	Passed

	Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
StopPump	GasPump Class StopPump() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StopPump() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Receipt() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class NoReceipt() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method The returned value is: 0 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE	GasPump Class StartPump() method PUMP IS READY TO DISPOSE	Passed

	# OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	# OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
StopPump	GasPump Class StopPump() method PUMP STOPPED # OF LITERS PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StopPump() method PUMP STOPPED # OF LITERS PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Test#21: Activate 4.1 5.0 6.0 PayCash 20.0 Super StartPump Activate 2.0 3.0 4.0 PayCredit
Reject Cancel Approved PayCash 3.0 Regular Super Diesel StartPump Receipt NoReceipt
TurnOff PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 20.0	GasPump Class PayCash(float c) method Enter Cash 20.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 20.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.0	Passed

	Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 2.0 3.0 4.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Reject	GasPump Class Reject() method	GasPump Class Reject() method	Passed

	The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Approved() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 3.0	GasPump Class PayCash(float c) method Enter Cash 3.0 The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 3.0 The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0	GasPump Class Regular() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0	Passed

	w: 0 No. of Gallons Pumped: 0	w: 0 No. of Gallons Pumped: 0	
Super	GasPump Class Super() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Diesel() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Receipt() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method The returned value is: 0 State: S5	GasPump Class NoReceipt() method The returned value is: 0 State: S5	Passed

	Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	
TurnOff	GasPump Class TurnOff() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method The returned value is: 0 State: S5 Price: $5.0 Total: $0.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 1	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 $15.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 $15.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method	GasPump Class Receipt() method	Passed

Event	Expected Output	Actual Output	Results
	RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.0 The returned value is: 1 State: S0 Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.0 Total: $5.0 Cash: $20.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#22: Activate 4.1 5.0 6.0 PayCredit Approved Diesel StartPump StopPump Activate 2.0 3.0 4.0 PayCredit Approved Reject Cancel PayCash 3.0 Regular Super Diesel StartPump PumpLiter StopPump TurnOff Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.1 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5.0 Enter D Price: 6.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method	GasPump Class PayCredit() method	Passed

	CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1	Passed

	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Activate 2.0 3.0 4.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class PayCredit() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method The returned value is: 0	GasPump Class Approved() method The returned value is: 0	Passed

	State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
Reject	GasPump Class Reject() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Reject() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Cancel() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PayCash 3.0	GasPump Class PayCash(float c) method Enter Cash 3.0 The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 3.0 The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1	GasPump Class Regular() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1	Passed

	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
Super	GasPump Class Super() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StartPump() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StopPump	GasPump Class StopPump() method The returned value is: 0 State: S6 Price: $6.0	GasPump Class StopPump() method The returned value is: 0 State: S6 Price: $6.0	Passed

Event	Expected Output	Actual Output	Results
	Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
TurnOff	GasPump Class TurnOff() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method The returned value is: 0 State: S6 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Test#23: Activate 4.5 5.5 -6.6 Activate 4.5 -5.5 6.6 Activate 4.5 -5.5 -6.6 Activate -4.5 5.5 6.6 Activate -4.5 5.5 -6.6 Activate -4.5 -5.5 6.6 Activate -4.5 -5.5 -6.6 Activate 4.5 5.5 6.6 PayCredit Reject TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.5 5.5 -6.6	GasPump Class Activate(float a,float b,float d) method	GasPump Class Activate(float a,float b,float d) method	Passed

	Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Activate 4.5 -5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: 6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: 6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 4.5 -5.5 -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0	Passed

	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
Activate -4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: 6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: 6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate -4.5 5.5 -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate -4.5 -5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: 6.6 The returned value is: 0 State: Entry State	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: 6.6 The returned value is: 0 State: Entry State	Passed

	Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Activate -4.5 -5.5 -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: -5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: -5.5 Enter D Price: -6.6 The returned value is: 0 State: Entry State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0	Passed

Event	Expected Output	Actual Output	Results
	Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Reject	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method CREDIT CARD IS REJECTED. The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#24: Activate 4.5 5.5 6.6 PayCash 10.0 Cancel Activate 4.5 5.5 6.6 Activate 4.5 5.5 -6.6 Activate 4.5 -5.5 6.6 Activate 4.5 -5.5 -6.6 Activate -4.5 5.5 6.6 Activate -4.5 5.5 -6.6 Activate -4.5 -5.5 6.6 Activate -4.5 -5.5 -6.6 TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0	Passed

	Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCash 10.0	GasPump Class PayCash(float c) method Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10.0 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10.0 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5 Enter D Price: 6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.1 Enter S Price: 5 Enter D Price: 6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0	Passed

	Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Activate 4.5 5.5 -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 4.5 -5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: 6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: 6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate 4.5 -5.5 -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: -5.5 Enter D Price: -6.6	Passed

	The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Activate -4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: 6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: 6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate -4.5 5.5 -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: 5.5 Enter D Price: -6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Activate -4.5 -5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5	Passed

Event	Expected Output	Actual Output	Results
	Enter S Price: -5.5 Enter D Price: 6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Enter S Price: -5.5 Enter D Price: 6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Activate -4.5 -5.5 -6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: -5.5 Enter D Price: -6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: -4.5 Enter S Price: -5.5 Enter D Price: -6.6 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#25: Activate 4.5 5.5 6.6 PayCash -10.0 PayCash 5.0 PayCredit Regular StartPump PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method	GasPump Class Activate(float a,float b,float d) method	Passed

	Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCash -10.0	GasPump Class PayCash(float c) method Enter Cash -10.0 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash -10.0 The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 5.0	GasPump Class PayCash(float c) method Enter Cash 5.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 5.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method The returned value is: 0	GasPump Class PayCredit() method The returned value is: 0	Passed

	State: S3 Price: $0.0 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	State: S3 Price: $0.0 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	
Regular	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.5 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $4.5 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $4.5 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $4.5 Total: $0.0 Cash: $5.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $4.5 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $4.5 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED.	GasPump Class StopPump() method PUMP STOPPED.	Passed

	# OF LITRES PUMPED: 1 TOTAL CHARGE: $4.5 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	# OF LITRES PUMPED: 1 TOTAL CHARGE: $4.5 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $4.5 The returned value is: 1 State: S0 Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $4.5 The returned value is: 1 State: S0 Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $4.5 Total: $4.5 Cash: $5.0 w: 0 No. of Gallons Pumped: 1	Passed

Test#26: Activate 4.5 5.5 6.6 Reject PayCredit Approved Diesel Cancel TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price:	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price:	Passed

	6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Reject	GasPump Class Reject() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Reject() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method	GasPump Class Diesel() method	Passed

Event	Expected Output	Actual Output	Results
	DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.6 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.6 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $6.6 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $6.6 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.6 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.6 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Test#27: Activate 4.5 5.5 6.6 Approved PayCredit Cancel Approved Super Super Diesel Regular Cancel TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6	Passed

	GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Approved	GasPump Class Approved() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Approved() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Cancel	GasPump Class Cancel() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL	Passed

	The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method The returned value is: 0 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method The returned value is: 0 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method The returned value is: 0 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Diesel() method The returned value is: 0 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0	Passed

Event	Expected Output	Actual Output	Results
	w: 1 No. of Gallons Pumped: 0	w: 1 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. The returned value is: 1 State: S0 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed

Test#28: Activate 4.5 5.5 6.6 PayCredit PayCash -5.0 PayCash 5.0 Approved Super PumpLiter StartPump PumpLiter StartPump StopPump TurnOff NoReceipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.5 5.5 6.6	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.5 Enter S Price: 5.5 Enter D Price: 6.6 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0	Passed

	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD. The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash -5.0	GasPump Class PayCash(float c) method Enter Cash -5.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash -5.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 5.0	GasPump Class PayCash(float c) method Enter Cash 5.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 5.0 The returned value is: 0 State: S2 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0	Passed

	Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	
Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method The returned value is: 0 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method The returned value is: 0 State: S4 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $5.5 Total: $0.0 Cash: $0.0 w: 1 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.5 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $5.5	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.5 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $5.5	Passed

	Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	
StartPump	GasPump Class StartPump() method The returned value is: 0 State: S1 Price: $5.5 Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class StartPump() method The returned value is: 0 State: S1 Price: $5.5 Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.5 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.5 Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $5.5 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $5.5 Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
TurnOff	GasPump Class TurnOff() method The returned value is: 0 State: S6 Price: $5.5 Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	GasPump Class TurnOff() method The returned value is: 0 State: S6 Price: $5.5 Total: $5.5 Cash: $0.0 w: 1 No. of Gallons Pumped: 1	Passed
NoReceipt	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $5.5 Total: $5.5 Cash: $0.0	GasPump Class NoReceipt() method NO RECEIPT IS PRINTED The returned value is: 1 State: S0 Price: $5.5 Total: $5.5 Cash: $0.0	Passed

	w: 1	w: 1	
	No. of Gallons Pumped: 1	No. of Gallons Pumped: 1	
TurnOff	GasPump Class	GasPump Class	Passed
	TurnOff() method	TurnOff() method	
	GAS PUMP IS TURNED OFF	GAS PUMP IS TURNED OFF	
	The returned value is: 1	The returned value is: 1	
	State: Exit State	State: Exit State	
	Price: $5.5	Price: $5.5	
	Total: $5.5	Total: $5.5	
	Cash: $0.0	Cash: $0.0	
	w: 1	w: 1	
	No. of Gallons Pumped: 1	No. of Gallons Pumped: 1	

Test#29: Activate 2.0 3.0 4.0 PayCash 1.0 Regular StartPump PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 2.0 3.0 4.0	GasPump Class	GasPump Class	Passed
	Activate(float a,float b,float d) method	Activate(float a,float b,float d) method	
	Enter R Price:	Enter R Price:	
	2.0	2.0	
	Enter S Price:	Enter S Price:	
	3.0	3.0	
	Enter D Price:	Enter D Price:	
	4.0	4.0	
	GAS PUMP IS ON	GAS PUMP IS ON	
	The returned value is: 1	The returned value is: 1	
	State: S0	State: S0	
	Price: $0.0	Price: $0.0	
	Total: $0.0	Total: $0.0	
	Cash: $0.0	Cash: $0.0	
	w: 0	w: 0	
	No. of Gallons Pumped: 0	No. of Gallons Pumped: 0	
PayCash 1.0	GasPump Class	GasPump Class	Passed
	PayCash(float c) method	PayCash(float c) method	
	Enter Cash	Enter Cash	
	1.0	1.0	
	SELECT TYPE OF GASOLINE:	SELECT TYPE OF GASOLINE:	
	a. REGULAR	a. REGULAR	
	b. SUPER	b. SUPER	
	c. DIESEL	c. DIESEL	
	The returned value is: 1	The returned value is: 1	
	State: S3	State: S3	

	Price: $0.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Price: $0.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	
Regular	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 $1.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 $1.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed
StopPump	GasPump Class StopPump() method	GasPump Class StopPump() method	Passed

	The returned value is: 0 State: S6 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	The returned value is: 0 State: S6 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S0 Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $2.0 Total: $0.0 Cash: $1.0 w: 0 No. of Gallons Pumped: 0	Passed

Test#30: Activate 4.0 5.0 6.0 Receipt NoReceipt PayCash 7.0 Diesel StartPump PumpLiter PumpLiter Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 4.0 5.0 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 6.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 4.0 Enter S Price: 5.0 Enter D Price: 6.0	Passed

	GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
Receipt	GasPump Class Receipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Receipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
NoReceipt	GasPump Class NoReceipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class NoReceipt() method The returned value is: 0 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 7.0	GasPump Class PayCash(float c) method Enter Cash 7.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 7.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 0	Passed
Diesel	GasPump Class Diesel() method	GasPump Class Diesel() method	Passed

	DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 0	DIESEL IS SELECTED. The returned value is: 1 State: S4 Price: $6.0 Total: $0.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 0		
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $6.0 Total: $0.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $6.0 Total: $0.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $6.0 Total: $6.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $6.0 Total: $6.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 1	Passed
PumpLiter	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 $1.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $6.0	GasPump Class PumpLiter() method PUMP STOPPED. NOT SUFFICIENT FUNDS. # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 $1.0 OF CASH IS RETURNED DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $6.0 Total: $6.0	Passed

Event	Expected Output	Actual Output	Results
	Cash: $7.0 w: 0 No. of Gallons Pumped: 1	Cash: $7.0 w: 0 No. of Gallons Pumped: 1	
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 The returned value is: 1 State: S0 Price: $6.0 Total: $6.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 1	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $6.0 The returned value is: 1 State: S0 Price: $6.0 Total: $6.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 1	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $6.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 1	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $6.0 Total: $6.0 Cash: $7.0 w: 0 No. of Gallons Pumped: 1	Passed

Test#31: Activate 2.0 3.0 4.0 PayCash 10.0 Regular StartPump PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 2.0 3.0 4.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0	Passed

	Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Cash: $0.0 w: 0 No. of Gallons Pumped: 0	
PayCash 10.0	GasPump Class PayCash(float c) method Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 10.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Regular	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $2.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Regular() method REGULAR IS SELECTED. The returned value is: 1 State: S4 Price: $2.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $2.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $2.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1	Passed

	TOTAL CHARGE: $2.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $2.0 Total: $2..0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	TOTAL CHARGE: $2.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $2.0 Total: $2..0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $2.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $2.0 Total: $2.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $2.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $2.0 Total: $2.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $2.0 The returned value is: 1 State: S0 Price: $2.0 Total: $2.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 1 TOTAL CHARGE: $2.0 The returned value is: 1 State: S0 Price: $2.0 Total: $2.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $2.0 Total: $2.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $2.0 Total: $2.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 1	Passed

Test#32: Activate 2.0 3.0 4.0 PayCash 3.0 Super StartPump PumpLiter StopPump Receipt
TurnOff

Event	Expected Output	Actual Output	Results
Activate 2.0 3.0 4.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 3.0	GasPump Class PayCash(float c) method Enter Cash 3.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCash(float c) method Enter Cash 3.0 SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	Passed
Super	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $3.0 Total: $0.0	GasPump Class Super() method SUPER IS SELECTED. The returned value is: 1 State: S4 Price: $3.0 Total: $0.0	Passed

	Cash: $3.0 w: 0 No. of Gallons Pumped: 0	Cash: $3.0 w: 0 No. of Gallons Pumped: 0	
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $3.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S5 Price: $3.0 Total: $0.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 CONTINUE PUMPING The returned value is: 1 State: S5 Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	Passed
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	GasPump Class StopPump() method PUMP STOPPED. # OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED:	GasPump Class Receipt() method RECEIPT IS PRINTED:	Passed

	# OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 The returned value is: 1 State: S0 Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	# OF LITRES PUMPED: 1 TOTAL CHARGE: $3.0 The returned value is: 1 State: S0 Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $3.0 Total: $3.0 Cash: $3.0 w: 0 No. of Gallons Pumped: 1	Passed

Test#33: Activate 2.0 3.0 4.0 PayCash 10.0 Cancel PayCredit Approved Regular StartPump PumpLiter PumpLiter StopPump Receipt TurnOff

Event	Expected Output	Actual Output	Results
Activate 2.0 3.0 4.0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Activate(float a,float b,float d) method Enter R Price: 2.0 Enter S Price: 3.0 Enter D Price: 4.0 GAS PUMP IS ON The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $0.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCash 10.0	GasPump Class PayCash(float c) method	GasPump Class PayCash(float c) method	Passed

	Enter Cash 10.0 SELECT TYPE OF GASOLINE: a.REGULAR b.SUPER c.DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Enter Cash 10.0 SELECT TYPE OF GASOLINE: a.REGULAR b.SUPER c.DIESEL The returned value is: 1 State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	
Cancel	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10.0 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class Cancel() method TRANSACTION IS CANCELLED. $10.0 OF CASH IS RETURNED The returned value is: 1 State: S0 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
PayCredit	GasPump Class PayCredit() method CHECKING CREDIT CARD The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	GasPump Class PayCredit() method CHECKING CREDIT CARD The returned value is: 1 State: S2 Price: $0.0 Total: $0.0 Cash: $10.0 w: 0 No. of Gallons Pumped: 0	Passed
Approved	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1	GasPump Class Approved() method CREDIT CARD APPROVED. SELECT TYPE OF GASOLINE: a. REGULAR b. SUPER c. DIESEL The returned value is: 1	Passed

		State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	State: S3 Price: $0.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	
Regular	GasPump Class Regular() method REGULAR IS SELECTED The returned value is: 1 State: S4 Price: $2.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	GasPump Class Regular() method REGULAR IS SELECTED The returned value is: 1 State: S4 Price: $2.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	Passed
StartPump	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $2.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	GasPump Class StartPump() method PUMP IS READY TO DISPOSE # OF LITRES PUMPED: 0 TOTAL CHARGE: $0.0 The returned value is: 1 State: S1 Price: $2.0 Total: $0.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 0	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $2.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $2.0 Total: $2.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 1	GasPump Class PumpLiter() method # OF LITRES PUMPED: 1 TOTAL CHARGE: $2.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $2.0 Total: $2.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 1	Passed
PumpLiter	GasPump Class PumpLiter() method # OF LITRES PUMPED: 2	GasPump Class PumpLiter() method # OF LITRES PUMPED: 2	Passed

	TOTAL CHARGE: $4.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	TOTAL CHARGE: $4.0 CONTINUE PUMPING The returned value is: 1 State: S1 Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	
StopPump	GasPump Class StopPump() method PUMP STOPPED. # OF LITERS PUMPED: 2 TOTAL CHARGE: $4.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	GasPump Class StopPump() method PUMP STOPPED. # OF LITERS PUMPED: 2 TOTAL CHARGE: $4.0 DO YOU WANT A RECEIPT? The returned value is: 1 State: S6 Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	Passed
Receipt	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 2 TOTAL CHARGE: $4.0 The returned value is: 1 State: S0 Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	GasPump Class Receipt() method RECEIPT IS PRINTED: # OF LITRES PUMPED: 2 TOTAL CHARGE: $4.0 The returned value is: 1 State: S0 Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	Passed
TurnOff	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	GasPump Class TurnOff() method GAS PUMP IS TURNED OFF The returned value is: 1 State: Exit State Price: $2.0 Total: $4.0 Cash: $10.0 w: 1 No. of Gallons Pumped: 2	Passed

CONCLUSION

The given GasPump class has been successfully tested using Model Based Testing, Ghost Transition Testing and Multiple Condition Testing.
This project has helped me understand how important and tedious the job of a tester is. Designing the Test Driver made me realise how the smallest of mistake can lead to a large number of defects. The project also highlights the importance of using Model Based Testing. Having the EFSM makes the checking of the steps easier and accurate.

Though there were no bugs in the code, some cases in the multiple condition testing were not executable. Also, I feel that in the code for GasPump, when the Cash was returned to the user after they Cancel or Pump, the cash is still stored in the memory. So, once the cash is out of the system, the display for value of cash should be 0.

I believe this project could have been automated by combining the Test Suite Checker as a part of the Test Driver. This would save the double effort required and prevent the continuous entering of inputs.

Finally, this project has been a good learning experience. We have learned various methods of testing individually and this helped to understand how we can use various testing methods on the same program.

SOURCE CODE for GasPump and TestDriver

Source Code for GasPump.java

```java
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 int getNumberOfGallons(){
                return L;
        }
```

```java
public float getCash(){
        return cash;
}

public int getW(){
        return w;
}

public int getState(){
        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");
```

```java
                        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;
```

```java
                    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 {
```

```java
                                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);
```

```java
                                    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;
                        }
                        ;
                }
                ;
                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");
```

```java
                        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;
                }
        }
}
```

Source code for TestDriver.java

```java
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 gs;
                Scanner sc=new Scanner(System.in);
                int x;
                System.out.println("\t\t\t\t\t\t\t\t\t\t\tCS 589: FALL 2015");
                System.out.println("\t\t\t\t\t\t\t\t\t\t\t   PROJECT ");
                System.out.println("\t\t\t\t\t\t\t\t\t\t\tROSHNI MASAND");
                System.out.println("\t\t\t\t\t\t\t\t\t\t\t   A20355488 ");
                System.out.print("Press enter to continue");
                sc.nextLine();
                int i=0;
                int k;
                while(i==0)
                {
                System.out.println("Test Driver for GasPump Class");
                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. NoReceipt");
                System.out.println("14. Receipt");
                System.out.println("15. TurnOff");
                System.out.println();
                System.out.println();
                System.out.println("Testing Related Methods");
                System.out.println("16. ShowState");
                System.out.println("17. ShowPrice");
                System.out.println("18. ShowW");
                System.out.println("19. Number of Gallons Pumped");
                System.out.println("20. Quit");
```

```java
System.out.println("Please select the operation");

x=sc.nextInt();

switch(x)
{
        case 1:
        System.out.println("GasPump Class");
        System.out.println("Activate(float a,float b,float d) method");
        System.out.println();
        System.out.println("Enter R Price");
        a=sc.nextFloat();
        System.out.println("Enter S Price");
        b=sc.nextFloat();
        System.out.println("Enter D Price");
        d=sc.nextFloat();
        System.out.println("The returned value is: "+g.Activate(a,b,d));
        System.out.print("Press enter to continue");
        sc.nextLine();
        sc.nextLine();
        break;


        case 2:
        System.out.println("GasPump Class");
        System.out.println("PayCredit() method");
        System.out.println();
        System.out.println("The returned value is: "+g.PayCredit());
        System.out.print("Press enter to continue");
        sc.nextLine();
        sc.nextLine();
        break;


        case 3:
        System.out.println("GasPump Class");
        System.out.println("Reject() method");
        System.out.println();
        System.out.println("The returned value is: "+g.Reject());
        System.out.print("Press enter to continue");
        sc.nextLine();
        sc.nextLine();
        break;


        case 4:
        System.out.println("GasPump Class");
```

```java
System.out.println("Approved() method");
System.out.println();
System.out.println("The returned value is: "+g.Approved());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;


case 5:
System.out.println("GasPump Class");
System.out.println("PayCash(float c) method");
System.out.println();
System.out.println("Enter Cash");
cash=sc.nextFloat();
System.out.println("The returned value is: "+g.PayCash(cash));
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 6:
System.out.println("GasPump Class");
System.out.println("Cancel() method");
System.out.println();
System.out.println("The returned value is: "+g.Cancel());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 7:
System.out.println("GasPump Class");
System.out.println("Regular() method");
System.out.println();
System.out.println("The returned value is: "+g.Regular());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 8:
System.out.println("GasPump Class");
System.out.println("Super() method");
System.out.println();
System.out.println("The returned value is: "+g.Super());
System.out.print("Press enter to continue");
```

```java
sc.nextLine();
sc.nextLine();
break;

case 9:
System.out.println("GasPump Class");
System.out.println("Diesel() method");
System.out.println();
System.out.println("The returned value is: "+g.Diesel());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 10:
System.out.println("GasPump Class");
System.out.println("StartPump() method");
System.out.println();
System.out.println("The returned value is: "+g.StartPump());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 11:
System.out.println("GasPump Class");
System.out.println("PumpLiter() method");
System.out.println();
System.out.println("The returned value is: "+g.PumpLiter());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 12:
System.out.println("GasPump Class");
System.out.println("StopPump() method");
System.out.println();
System.out.println("The returned value is: "+g.StopPump());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 13:
System.out.println("GasPump Class");
System.out.println("NoReceipt() method");
```

```java
System.out.println();
System.out.println("The returned value is: "+g.NoReceipt());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 14:
System.out.println("GasPump Class");
System.out.println("Receipt() method");
System.out.println();
System.out.println("The returned value is: "+g.Receipt());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 15:
System.out.println("GasPump Class");
System.out.println("TurnOff() method");
System.out.println();
System.out.println("The returned value is: "+g.TurnOff());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;


case 16:
gs=g.getState();
if(gs==-1)
System.out.println("State: Entry State");
else if(gs==-2)
System.out.println("State: Exit State");
else
System.out.println("State:  S"+g.getState());
System.out.print("Press enter to continue");
sc.nextLine();
sc.nextLine();
break;

case 17:

System.out.println("Price: $ "+g.getPrice());
System.out.println("Total: $"+g.getTotal());
System.out.println("Cash: $"+g.getCash());
System.out.print("Press enter to continue");
```

```java
                    sc.nextLine();
                    sc.nextLine();
                    break;

                    case 18:
                    System.out.println("Value of w: "+g.getW());
                    System.out.print("Press enter to continue");
                    sc.nextLine();
                    sc.nextLine();
                    break;

                    case 19:
                    System.out.println("Number of Gallons pumped:
"+g.getNumberOfGallons());
                    System.out.print("Press enter to continue");
                    sc.nextLine();
                    sc.nextLine();
                    break;

                    case 20:
                    System.out.println("Quit");
                    i=1;
                    break;

                    default:
                    System.out.println("Please enter valid input");
                    System.out.print("Press enter to continue");
                    sc.nextLine();
                    sc.nextLine();

            }
            }
      }
}
```