Test case 1 (console output):

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Shop is not set up yet

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

Shop is not set up yet!

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 4

Shop is not set up yet!

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 5

Invalid Input. Enter a value > 0 and < 5: -2

Invalid Input. Enter a value > 0 and < 5: 0

Invalid input, please enter valid function number(ie..1 to 4):

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want:

Test Case 2(console output):

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

Shop is not set up yet!

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: -5

Invalid Input. Enter a value > 0 and < 5: 2

Shop is not set up yet

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 1

Please enter the number of items to setup shop: 3

Enter the name of the 1st product: sugar

Enter the number of package price of sugar :10

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for sugar , or 0 if no Special Discount offered:3

Enter the name of the 2nd product: salt

Enter the number of package price of salt :20

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for salt , or 0 if no Special Discount offered:0

Enter the name of the 3rd product: milk

Enter the number of package price of milk :30

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for milk , or 0 if no Special Discount offered:4

Enter the dollar amount to qualify for Additional Discount (or 0 if none offered): 100

Enter the Additional Discount rate (e.g., 0.1 for 10%):3

Invalid input. Enter a value > 0 and <= 0.5:.2

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

You have not bought anything!

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Enter the number of sugar packages to buy: 10

Enter the number of salt packages to buy: 0

Enter the number of milk packages to buy: 20

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

10 packages of sugar @ $10.00 per pkg = $100.00

20 packages of milk @ $30.00 per pkg = $600.00

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

10 packages of sugar @ $10.00 per pkg = $100.00

20 packages of milk @ $30.00 per pkg = $600.00

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 4

Original Sub Total: $700.00

Special Discounts: -$140.00

New Sub Total: $560.00

Additional %20 Discount: -$112.00

Final Sub Total: $448.00

Thanks for coming!

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Would you like to re-run (1 for yes, 0 for no)? 0

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Test Case 3 (console output):

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 1

Please enter the number of items to setup shop: 3

Enter the name of the 1st product: candy

Enter the number of package price of candy :10

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for candy , or 0 if no Special Discount offered:1

Enter the name of the 2nd product: tomatoes

Enter the number of package price of tomatoes :20

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for tomatoes , or 0 if no Special Discount offered:2

Enter the name of the 3rd product: paper

Enter the number of package price of paper :30

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for paper , or 0 if no Special Discount offered:3

Enter the dollar amount to qualify for Additional Discount (or 0 if none offered): 0

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Enter the number of candy packages to buy: 0

Enter the number of tomatoes packages to buy: 0

Enter the number of paper packages to buy: 0

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

No items were purchased.

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Enter the number of candy packages to buy: 1

Enter the number of tomatoes packages to buy: 1

Enter the number of paper packages to buy: 1

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

1 package of candy @ $10.00 per pkg = $10.00

1 package of tomatoes @ $20.00 per pkg = $20.00

1 package of paper @ $30.00 per pkg = $30.00

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 4

Original Sub Total: $60.00

No Special Discounts applied

New Sub Total: $60.00

You did not qualify for an Additional Discount

Final Sub Total: $60.00

Thanks for coming!

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Would you like to re-run (1 for yes, 0 for no)? 0

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Test case 4 (console output):

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Shop is not set up yet

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 1

Please enter the number of items to setup shop: 2

Enter the name of the 1st product: bag

Enter the number of package price of bag :40

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for bag , or 0 if no Special Discount offered:4

Enter the name of the 2nd product: glasses

Enter the number of package price of glasses :50

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for glasses , or 0 if no Special Discount offered:5

Enter the dollar amount to qualify for Additional Discount (or 0 if none offered): 200

Enter the Additional Discount rate (e.g., 0.1 for 10%):.3

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Enter the number of bag packages to buy: -4

Invalid input. Enter a value >= 0: -2

Invalid input. Enter a value >= 0: 12

Enter the number of glasses packages to buy: -5

Invalid input. Enter a value >= 0: 15

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 1

Please enter the number of items to setup shop: 3

Enter the name of the 1st product: pillow

Enter the number of package price of pillow :11.50

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for pillow , or 0 if no Special Discount offered:4

Enter the name of the 2nd product: pens

Enter the number of package price of pens :14.43

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for pens , or 0 if no Special Discount offered:5

Enter the name of the 3rd product: pencils

Enter the number of package price of pencils :2.25

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for pencils , or 0 if no Special Discount offered:6

Enter the dollar amount to qualify for Additional Discount (or 0 if none offered): 100

Enter the Additional Discount rate (e.g., 0.1 for 10%):.25

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Enter the number of pillow packages to buy: 12

Enter the number of pens packages to buy: 14

Enter the number of pencils packages to buy: 20

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

12 packages of pillow @ $11.50 per pkg = $138.00

14 packages of pens @ $14.43 per pkg = $202.02

20 packages of pencils @ $2.25 per pkg = $45.00

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 4

Original Sub Total: $385.02

Special Discounts: -$56.36

New Sub Total: $328.66

Additional %25 Discount: -$82.16

Final Sub Total: $246.49

Thanks for coming!

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Would you like to re-run (1 for yes, 0 for no)? 0

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Test case 5 (console output):

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 1

Please enter the number of items to setup shop: 1

Enter the name of the 1st product: soap

Enter the number of package price of soap :30

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for soap , or 0 if no Special Discount offered:4

Enter the dollar amount to qualify for Additional Discount (or 0 if none offered): 50

Enter the Additional Discount rate (e.g., 0.1 for 10%):.3

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 4

You have not bought anything!

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

You have not bought anything!

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Enter the number of soap packages to buy: 3

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

3 packages of soap @ $30.00 per pkg = $90.00

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 4

Original Sub Total: $90.00

No Special Discounts applied

New Sub Total: $90.00

Additional %30 Discount: -$27.00

Final Sub Total: $63.00

Thanks for coming!

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Would you like to re-run (1 for yes, 0 for no)? 1

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This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 1

Please enter the number of items to setup shop: 2

Enter the name of the 1st product: charger

Enter the number of package price of charger :50

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for charger , or 0 if no Special Discount offered:2

Enter the name of the 2nd product: headset

Enter the number of package price of headset :30

Enter the number of packages ('x') to qualify for Special Discount (buy 'x' get 1 free)

for headset , or 0 if no Special Discount offered:1

Enter the dollar amount to qualify for Additional Discount (or 0 if none offered): 100

Enter the Additional Discount rate (e.g., 0.1 for 10%):.5

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 2

Enter the number of charger packages to buy: 4

Enter the number of headset packages to buy: 2

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 3

4 packages of charger @ $50.00 per pkg = $200.00

2 packages of headset @ $30.00 per pkg = $60.00

This program supports 4 functions:

1. Setup Shop

2. Buy

3. List Items

4. Checkout

Please choose the function you want: 4

Original Sub Total: $260.00

Special Discounts: -$80.00

New Sub Total: $180.00

Additional %50 Discount: -$90.00

Final Sub Total: $90.00

Thanks for coming!

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Would you like to re-run (1 for yes, 0 for no)? 0

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