

Python For Engineers

Assignment 1

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Course: Btech

Program: CSE D

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Assignment-1: Calculate the total cost of 3 different items. Add a discount of 10% if the total exceeds \$50.

Source code:

```
sum = 0 #Total of items purchased
```

```
for i in range(3):
```

```
    price_of_item = float(input(f"Enter price of item {i+1}: "))
```

```
    Quantity_of_item = int(input(f"Enter quantity of item {i+1}: "))
```

```
    sum += price_of_item*Quantity_of_item
```

```
if(sum > 50):
```

```
    print("There is discount of on purchase of items having total greater  
then 50 USD")
```

```
    print(f"Total : {sum}")
```

```
    print(f"Discounted : {sum/10}")
```

```
    print(f"Total payable price is : {sum - sum/10}")
```

```
else:
```

```
print(f"Total payable price is : {sum}")
```

Sample Output:

Enter price of item 1: 5

Enter quantity of item 1: 1

Enter price of item 2: 6

Enter quantity of item 2: 4

Enter price of item 3: 5

Enter quantity of item 3: 5

There is discount of on purchase of items having total greater then 50 USD

Total : 54.0

Discounted : 5.4

Total payable price is : 48.6

Sample output 2:

Enter price of item 1: 5

Enter quantity of item 1: 1

Enter price of item 2: 10

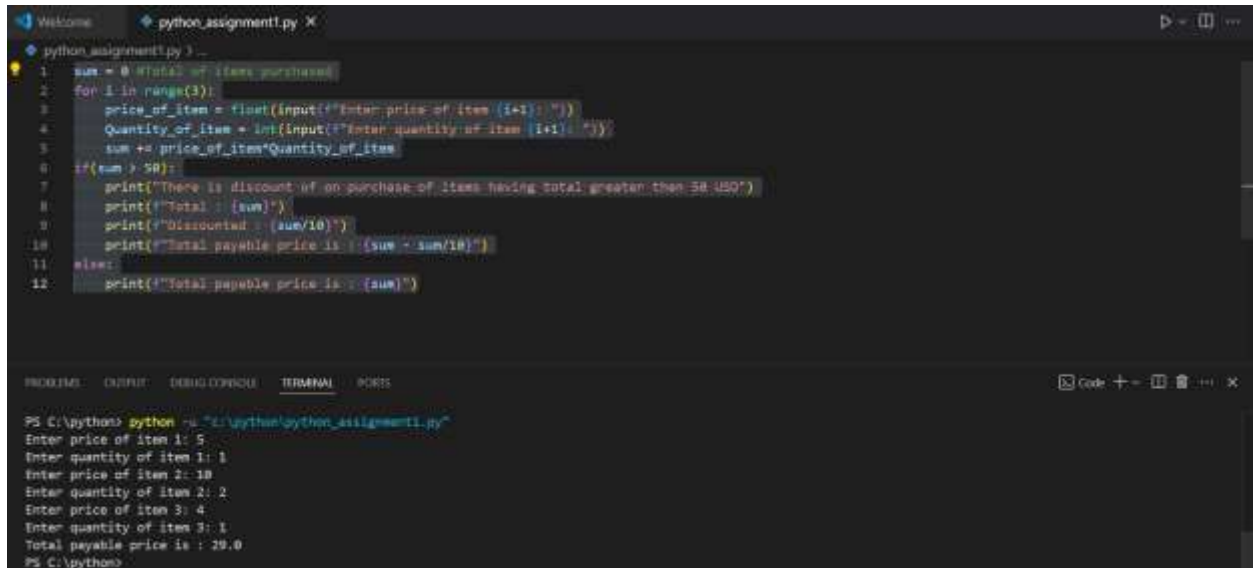
Enter quantity of item 2: 2

Enter price of item 3: 4

Enter quantity of item 3: 1

Total payable price is : 29.0

Screenshot:



```
python_assignment1.py X
python_assignment1.py
1 sum = 0 #Total of items purchased
2 for i in range(3):
3     price_of_item = float(input("Enter price of item {i+1}: "))
4     Quantity_of_item = int(input("Enter quantity of item {i+1}: "))
5     sum += price_of_item*Quantity_of_item
6 if(sum > 50):
7     print("There is discount of 10% on purchase of items having total greater than 50 USD")
8     print("Total : {sum}")
9     print("Discounted : (sum/10)")
10    print("Total payable price is : (sum - sum/10)")
11 else:
12    print("Total payable price is : {sum}")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\python> python -u "c:\python\python_assignment1.py"
Enter price of item 1: 5
Enter quantity of item 1: 1
Enter price of item 2: 10
Enter quantity of item 2: 2
Enter price of item 3: 4
Enter quantity of item 3: 1
Total payable price is : 29.0
PS C:\python>
```