

## Lab 1

### Python

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Question1:

Code:

```
groceryList = {'Rice':[5,300], 'Wheat':[2,100], 'Flour':[2,250], 'Cereals':[3,100], 'Meat':[1,200], 'Eggs':[10,55], 'Milk':[2,25], 'Oil':[1,150], 'Drinks':[1,20], 'Chips':[5,25]}
print("\n=====GROCERY LIST=====\\n{:<10} {:<10} {:<10}".format('ITEM','QUANTITY','PRICE'))
for key, value in groceryList.items():
    item, (quantity, price) = key, value
    print("{:<10} {:<10} {:<10}".format(item,quantity,price))
shoppingList = {'Rice':2, 'Wheat':2, 'Cereals':6, 'Meat':2, 'Oil':2}
totalPrice = 0
print("\n=====BILL=====\\n{:<10} {:<10} {:<10}".format('ITEM','QUANTITY','PRICE'))
for key, value in shoppingList.items():
    item, quantity = key, value
    if key in groceryList:
        totalPrice += (groceryList[key][1] / groceryList[key][0]) * value
        price = (groceryList[key][1] / groceryList[key][0]) * value
        print("{:<10} {:<10} {:<10}".format(item,quantity,price))

print("\\nTotal Bill :",totalPrice)
print("Total Bill with added GST(20%) :", totalPrice + (0.20*totalPrice))
```

Output:

```
PS C:\Users\DELL\OneDrive\Desktop\Labs> python -u "c:\Users\DELL\OneDrive\Desktop\Labs\IIIT PUNE LABS\3 Third Sem\Python\LAB 1\LAB_1.py"

=====GROCERY LIST=====
ITEM      QUANTITY  PRICE
Rice       5         300
Wheat      2         100
Flour      2         250
Cereals     3         100
Meat       1         200
Eggs       10         55
Milk       2          25
Oil        1         150
Drinks     1          20
Chips      5          25

=====BILL=====
ITEM      QUANTITY  PRICE
Rice       2        120.0
Wheat      2        100.0
Cereals     6        200.0
Meat       2        400.0
Oil        2        300.0

Total Bill : 1120.0
Total Bill with added GST(20%) : 1344.0
PS C:\Users\DELL\OneDrive\Desktop\Labs> █
```