16-09-2025

Q) 1.E-commerce Discount Calculator

scenario: an online store store offers discounts based on the purchase amount:

•10% discount for purchases between $100 and $500

•20% discount for purchases above $100

•No discount for purchases below $100

Task: WAP that takes the purchase amount as input and calculates the discont and final amount to be paid.

A)
```
pa = float(input("enter a value:"))
if(pa>=100 and pa<=500):
  dis = pa*0.1
   print("discount amount:",dis)
   final_amnt = pa - dis
   print("discount amount:",final_amnt)
elif(pa>500):
   dis = pa*0.2
   print("discount amount:",dis)
   final_amnt = pa - dis
   print("discount amount:",final_amnt)
else:
   print("NO discount")
   final_amnt = pa
   print("discount amount:",final_amnt)
```

o/p:

```
1)enter a value: 300
  discount amount: 30.0
  discount amount: 270.0
```

2) enter a value: 75
   NO discount
   discount amount: 75.0

3) enter a value: 2500
   discount amount: 500.0
   discount amount: 2000.0

Q2)Electricity Bill Calculator

Scenario: An electricity company charges its customers as follows:

•First 100 units: $0.5 per unit
•Next 100 units (101-200): $0.75 per unit
•Above 200 units: $1 per unit

Task: Write a program that accepts the number of units consumed and calculates the total bill.

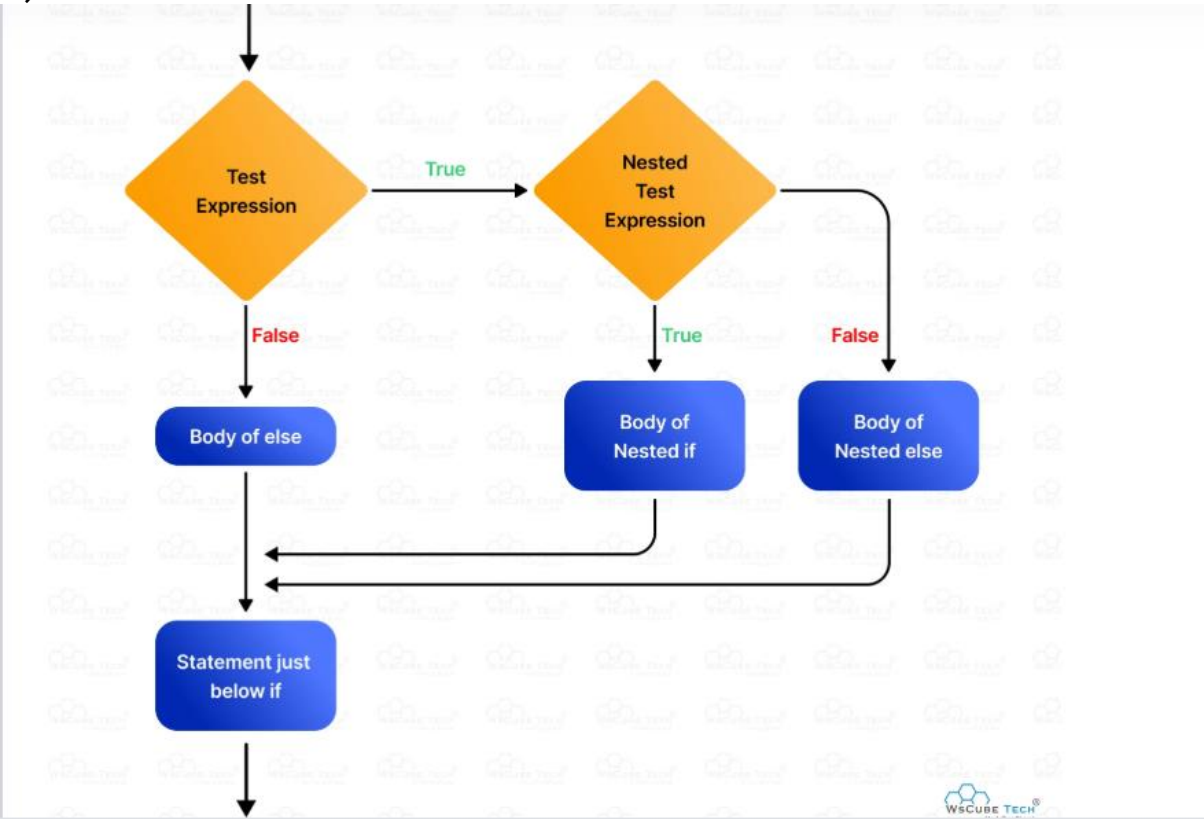
```
A)units = int(input("enter num of units used:"))
if(units>0 and units<=100):
    bill_amnt = units*0.5
elif(units>=101 and units<=200):
    diff_units = units - 100
    bill_amnt = (100*0.5)+(diff_units*0.75)
elif(units>200):
    dif_units = units-200
    bill_amnt = (100*0.5)+(100*0.75)+(diff_units*1)
else:
    print("invalid input")
print("the bill amount is:",bill_amnt,"$")
```

o/p:
1)enter num of units used: 125
   the bill amount is: 68.75$

2) enter num of units used: 267
   the bill amount is: 150.0 $

3) enter num of units used: 48
   the bill amount is: 24.0 $

4) nested if else statement



syntax

```
if(cond1): #outer if
    if(cond2): #inner if
        statements of inner if
     else:
         statement of inner if else
else:
    statements of outer if else
```

Q3) WAP to find the given number is +ve,-ve,zero.

A) num = int(input())

if(num>=0):

```
    if(num>0):
        print("+ve")
    else:
        print("zero")
else:
    print("-ve")
```

o/p:

```
1) 0
   Zero

2) 6
   +ve

3) -1
   -ve
```