

Day 7 (07.08.23) (If, Elif, Nested If, Else):

If: "If" condition is not true, run the first Elif condition.

```
"If (Condition):  
    Action
```

```
Elif (Condition):  
    Action"
```

Nested If: If "If" condition is true, and another if required in case of the first if, then run the Nested If condition.

```
"If (Condition):  
    Action  
    If (condition):  
        Action"
```

1) Same If condition with different outcomes: If with same condition and different action will run the condition code & and provides all possible outputs.

Code:

```
print("")  
dept1=input("Enter your dept: ")  
if dept1=="MCA":  
    print("You're Allowed")  
if dept1=="MCA":  
    print("You're not Allowed") #error
```

Output:

```
Enter your dept: MCA  
You're Allowed  
You're not Allowed
```

2)Elif: If after the previous if not satisfied.

Code:

```
dept=input("Enter your department: ")  
if dept=="MCA" or dept=="mca" or dept=="BCA" or dept=="bca":  
    print("You're Allowed")  
elif dept=="Staff" or dept=="HOD":  
    print("ID need to be verified")  
else:  
    print("You're not Allowed")
```

Output:

```
Enter your department: MCA  
You're Allowed.
```

3) Operations using Nested If, Elif & Else:

Repeated If: If all the "If" used in the code are not interconnected (not related to each other), it is repeated if.

Nested If: If the "If" is connected with other if (related to other if), it's nested if.

Code:

```
print("WELCOME TO SHIV HOTEL")
print("Menu:")
print("1) Dosa(20),")
print("2) Idli(5)")
print("3) Poori(15). ")
d=20 #dosa
i=5 #idli
p=15 #poori
menu=["Dosa","dosa","idli","Idli","poori","Poori"]
yourorder=input("Enter your Order: ")
if yourorder in menu:
    print(f"Your Order, {yourorder} is available.")
    num_order=int(input("Enter No.of.Orders: "))
    totd=num_order*d
    toti=num_order*i
    totp=num_order*p
    distotd=((95/100)*totd)
    distoti=((95/100)*toti)
    distotp=((95/100)*totp)
    if yourorder=="Dosa" or yourorder=="dosa":
        print(f"Your bill is Rs.{totd}")
        if totd>=1000:
            print("It is above Rs.1000 and eligible for discount of 5%")
            print(f"Total Discount price is {distotd}")
    elif yourorder=="Idli" or yourorder=="idli":
        print(f"Your bill is Rs.{toti}")
        if toti>=1000:
            print("It is above Rs.1000 and eligible for discount of 5%")
            print(f"Total Discount price is {distoti}")
    elif yourorder=="Poori" or yourorder=="poori":
        print(f"Your bill is Rs.{totp}")
        if totp>=1000:
            print("It is above Rs.1000 and eligible for discount of 5%")
            print(f"Total Discount price is {distotp}")
else:
    print(f"Your Order {yourorder} is not available")
```

Output:

WELCOME TO SHIV HOTEL

Menu:

1) Dosa(20),

2) Idli(5)

3) Poori(15).

Enter your Order: Poori

Your Order, Poori is available.

Enter No.of.Orders: 250

Your bill is Rs.3750

It is above Rs.1000 and eligible for discount of 5%

Total Discount price is 337500.