15/11/23

Chained Conditionals

Day 44

IF-ELIF-ELSE

- Syntax :

```
if (condition-1) :
        block-1 statement (s)
elif (condition-2):
        block-2 statement (s)
        :
else : default statement
```

#1 Write a Python program to check whether the given no is +ve, -ve or zero (0).

```
n = int(input("Enter a number : "))
if (n==0):
        print("zero")
elif (n>0):
        Print(" +ve number")
else:
        Print(" -ve number")
Print("Thank you")
```

#2 Python program to find Greatest among 3 numbers :

```
n1 = int(input("Enter the 1st no : "))
n2 = int(input("Enter the 2nd no : "))
n3 = int(input("Enter the 3rd no : "))
if (n1>n2 and n1>n3):
        Print(" n1 is greater")
elif (n2>n3):
        print(" n2 is greater")
else:
        Print(" n3 is greater")
print(" Thank you")
```

#3 Roots of Quadratic eqn

```
a = float (input ("Enter a: "))
b = float (input ("Enter b: "))
c = float (input ("Enter c: "))
d = (b**2) - (4*a*c)

if (d==0):
    print ("Roots are equal")
    root1 = root2 = (-b/(2*a))
    print ("The roots are {0} and {1}".format
                (root1, root2))

elif (d>0):
    print ("Roots are real and distinct")
    root1 = ((-b+((d)**0.5))/(2*a))
    root2 = ((-b+((d)**0.5))/(2*a))
    print ("The roots are {0} and {1}".format
                (root1, root2))

else:
    print ("Roots are imaginary")
    realp = (-b)/(2*a)
    imgp = ((d)**0.5)/(2*a)
    print ("The roots are {0} and {1}".format
                (root1, root2))
```