

Programs of Decision Control

In [14]:

```
# 1) write a program to check whether the given number is +ve, -ve, or zero
```

```
z = int(input("Enter a no.:"))
if z>0:
    print("Given no. is Positive")
elif z<0:
    print("Given no. is Negative")
else:
    print("Given no. is Zero")
```

```
Enter a no.:0
Given no. is Zero
```

In [15]:

```
# 2) write a program to check whether the given number is divisible by 5 or not
```

```
c=int(input("Eneter a no.:"))
if(c%5)==0:
    print("yes")
else:
    print("no")
```

```
Eneter a no.:564
no
```

In [16]:

```
# 3) write a program to check whether a number is even or odd
```

```
x=int(input("Enter a no.:"))
if x%2==0:
    print("Number is Even")
else:
    print("Number is Odd")
```

```
Enter a no.:254
Number is Even
```

In [17]:

```
# 4) write a program to print the grater b/w two no. if both the numbers are equal then

a=int(input("Enter 1st no. :"))
b=int(input("Enter 2nd no. :"))
if a>b:
    print("-->",a)
else:
    print("-->",b)
```

```
Enter 1st no. :12
Enter 2nd no. :16
--> 16
```

In [20]:

```
# 5) write a program to print two given words from user in dictionary order

s=input("Enter text 1 :")
t=input("Enter text 2 :")
if s>t:
    print(s)
    print(t)
else:
    print(t)
    print(s)
```

```
Enter text 1 :nikhil
Enter text 2 :nilikh
nilikh
nikhil
```

In [22]:

```
# 6) write a program to check whether the given no. is a 3 digit no. or not

y=int(input("Enter a no.:"))
if y>=100 and y<=999:
    print("You entered 3 digit no.")
else:
    print("Wrong input")
```

```
Enter a no.:452
You entered 3 digit no.
```

In [25]:

```
# 7) write a program to check whether the quadratic eq. has two real & distinct roots,
a=int(input("Enter Multiplier of x^2 :"))
b=int(input("Enter Multiplier of x :"))
c=int(input("Enter Constant value :"))
root = b**2-(4*a*c)
if root<0:
    print("imaginary roots")
elif root>0:
    print("two real and distinct roots")
else:
    print("real and equal roots")
```

Enter Multiplier of x^2 :5

Enter Multiplier of x :6

Enter Constant value :9

imaginary roots

In [7]:

```
# 8) write a program to check whether the given year is Leap year or not
y=int(input("Enter year"))
if(y%100)>0 and y%4==0:
    print("Year is Leap Year")
elif(y%100)==0 and y%400==0:
    print("Year is Leap Year")
else:
    print("Year is not a leap year")
```

Enter year2600

Year is not a leap year

In [12]:

```
# 9) write a program to print greatest out of three no. if all the no. are same you need
x=int(input("Enter no. 1:"))
y=int(input("Enter no. 2:"))
z=int(input("Enter no. 3:"))
if x>=y and x>=z:
    print(x)
elif x<=y and y>=z:
    print(y)
else:
    print(z)
```

Enter no. 1:8

Enter no. 2:8

Enter no. 3:8

8

In []: