## **Programming Assignment\_3**

# 1. Write a Python Program to Check if a Number is Positive, Negative or Zero?

```
In [12]:
checkNum=float(input("Enter a number:- "))
if checkNum<0:
    print("The",checkNum,"is negative")
elif checkNum>0:
    print("The",checkNum,"is Positive")
elif checkNum==0:
    print("The",checkNum,"is zero")
Enter a number:- 0.36
The 0.36 is Positive
```

### 2. Write a Python Program to Check if a Number is Odd or Even?

```
In [16]:
EvenOddNum=float(input("Enter The Number:- "))
if EvenOddNum%2==0:
    print("The", EvenOddNum, "is Even Number")
else:
    print("The", EvenOddNum, "is Odd Number")
Enter The Number:- -90
The -90.0 is Even Number
```

In [23]:

#### 3. Write a Python Program to Check Leap Year?

```
LeapYear=int(input("Enter the Year:- "))
if LeapYear%4==0:
    print("The", LeapYear, "is Leap Number")
else:
    print("The", LeapYear, "is Not Leap Number")
Enter the Year:- 2024
The 2024 is Leap Number
```

### 4. Write a Python Program to Check Prime Number?

```
In [116]:
flag=True
PrimeNumber=int(input("Enter a number:- "))
if PrimeNumber>1:
    for i in range(2,PrimeNumber):
        if(PrimeNumber%i==0):
            flag=False
            break
```

```
if PrimeNumber==1:
    print("The Number is Not Prime", PrimeNumber)
elif flag==True:
    print("The Number is Prime", PrimeNumber)
else:
    print("The Number is Not Prime", PrimeNumber)
Enter a number:- 91
The Number is Not Prime 91
```

# 5. Write a Python Program to Print all Prime Numbers in an Interval of 1-10000?