1 –numero = float(input('enter a number:'))

if numero > 0:

print("positive number")

elif numero == 0:

print("Zero")

else:

print("negative number")

2- #Odd number

number = int(input("Enter a number:"))

if (number%2 )== 0:

print(f'{number} is even')

else:

print(f'{number} is ood')

3 – **def** CheckLeap(Year):

  # Checking if the given year is leap year

**if**((Year % 400 == 0) **or**

     (Year % 100 != 0) **and**

     (Year % 4 == 0)):

**print**("Given Year is a leap Year");

  # Else it is not a leap year

**else**:

**print** ("Given Year is not a leap Year")

# Taking an input year from user

Year = int(input("Enter the number: "))

4 –

# To take input from the user

num = int(input("Enter a number: "))

# define a flag variable

flag = False

# prime numbers are greater than 1

if num > 1:

# check for factors

for i in range(2, num):

if (num % i) == 0:

# if factor is found, set flag to True

flag = True

# break out of loop

break

# check if flag is True

if flag:

print(num, "is not a prime number")

else:

print(num, "is a prime number")

5 –

for num in range(1, 1001):

for i in range(2, num):

if num % i == 0:

break

else:

print num, 'is a prime number'