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

X= int(input(‘input number : - ’))

if x>0:

Print(‘number is positive’)

elif x<0:

Print(‘number is negative’)

else:

Print(‘number is zero’)

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

X= int(input(‘input number : - ’))

if x%2 == 0:

Print(‘number is Even’)

else:

Print(‘number is odd’)

1. Write a Python Program to Check Leap Year?

year= int(input(‘input year : - ’))

if (year % 400 == 0) and (year % 100 == 0):

print("year is a leap year"))

elif (year % 4 ==0) and (year % 100 != 0):

print("year is a leap year"))

else:

print("year is not a leap year")

1. Write a Python Program to Check Prime Number?

X= int(input('input number : - '))

for i in range(2,X):

if X%i == 0:

print('it is not a prime number')

break

else:

print('it is a prime number')

note for-else loop is used here.

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

for x in range(1,1000):

for i in range(2,X):

if X%i == 0:

break

else:

print(x)