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

x=float(input("Enter the number : "))

if x==0:

print("Number is zero")

elif x>0:

print("Number is positive")

else:

print("number is negative")

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

x=int(input("Enter the 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('Enter the year: '))

if (year%4 == 0 and year%100 != 0 ) or (year%400 == 0):

print('year is a leap year')

else:

print('not a leap year')

1. Write a Python Program to Check Prime Number?

num= int(input('Enter the number: '))

if num>1:

for i in range (2,num):

if (num%i==0):

print(num,"is not prime number")

break

else:

print(num,"is prime number")

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

num1 = 1

num2= 10000

for num in range(num1,num2 + 1):

if num > 1:

for i in range(2,num):

if (num % i) == 0:

break

else:

print(num)