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

A)

var=-12

if var<0:

print("The Number is negative")

elif var>0:

print("The Number is positive")

else:

print("The number is zero")

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

A)

num=6

if num % 2 == 0:

print("Even number")

else:

print("Odd Number")

3. Write a Python Program to Check Leap Year?

A)

year = 2020

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

print("Leap Year")

else:

print("Not a Leap Year")

4. Write a Python Program to Check Prime Number?

A)

num=89

flag=1

for i in range(2,num):

if(num % i == 0):

flag=0

if flag:

print("prime number")

else:

print("composite number")

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

A)

arr=[]

for i in range(2,10001):

flag=1

for j in range(2,i):

if i % j == 0:

flag=0

if flag:

arr.append(i)

print(arr)