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

i = int(input("input a number"))

if i < 0:

print("number is negative")

elif i > 0:

print("number is postive")

else:

print("number is zero")

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

i = int(input("input a number"))

if i%2 == 0:

print("number is even")

else:

print("number is odd")

1. Write a Python Program to Check Leap Year?

year = int(input("Please Enter the Year Number: "))

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

print(year, " is a Leap Year" )

else:

print(year, " is not the Leap Year" )

1. Write a Python Program to Check Prime Number?

n = int(input("enter a number"))

if n >1:

for i in range(2,n):

if (n%i) == 0 :

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

print(i, "times",n//i,"is", n)

break

else:

print(n, "is a prime number")

else:

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

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

for n in range(1,10000):

count = 0

for i in range(2,(n//2+1)):

if(n%i == 0):

count=count+1

break

if ( count == 0 and n != 1):

print("%d" %n, end = ' ')