Python Assignment-3

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

A.

n = float (input ("Enter a number: "))

# Check if the number is positive, negative, or zero

if n > 0:

print ("The number is positive.")

elif n < 0:

print ("The number is negative.")

else:

print ("The number is zero.")

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

### A.

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

if num % 2 == 0:

print ("Given number is Even")

else:

print ("Given number is Odd")

1. Write a Python Program to Check Leap Year?

# input year

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

# Check if it's a leap year

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

print(f"{year} is a leap year.")

else:

print(f"{year} is not a leap year.")

### Write a Python Program to Check Prime Number?

### A.

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

flag = 0

for i in range (2, num):

if num%i==0:

flag = 1

break

if flag == 1:

print ('Not Prime')

else:

print ("Prime")

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

### A.

l=1

u=10000

**print** ("The Prime Numbers in the range are: ")

**for** number **in** range (l, u + 1):

**if** number > 1:

**for** i **in** range (2, number):

**if** (number % i) == 0:

**break**

**else**:

**print** (number)