**Python Assignment 3**

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

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

if number < 0: print("The number is Negative.")

elif number > 0: print("The Number is Positive.")

elif number == 0: print("The Number is Zero.")

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

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

if num%2==0 :print("The Number is even")

else: print("The Number is Odd")

3. Write a Python Program to Check Leap Year?

year = int(input('Enter year : '))

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

print(year, "is a leap year.")

else : print(year, "is not a leap year.")

4. Write a Python Program to Check Prime Number?

number = int(input("Enter Number: "))

if number > 1:

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

if (number % i) == 0:

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

break

else:

print(number, "is a prime number")

else: print(number, "is not a prime number")

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

min = int(input("Enter the Min value:"))

max = int(input("Enter the Max value:"))

for number in range(min,max+1):

if number>1:

for i in range(2,number):

if (number%i)==0:

break

else:

print(number)