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

*# take user input of number*

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

if num < 0:

print("The entered number is Negative")

elif num == 0:

print("The entered number is Zero")

else:

print("The entered number is Positive")

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

*# take user input of number*

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

if num%2 == 0:

print("The entered number is Even")

else:

print("The entered number is Odd")

1. Write a Python Program to Check Leap Year?

*# take user input of year*

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

if year%4 == 0:

print("The entered year is a leap year")

else:

print("The entered year is not a leap year")

1. Write a Python Program to Check Prime Number?

*# take user input of number*

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

if num > 1:

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

if num%i == 0:

print("The entered number is not Prime")

break

else:

print("The entered number is Prime")

else:

print("The entered number is not Prime")

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

list\_of\_prime = []

for num in range(2,10000):

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

if num%i == 0:

break

else:

list\_of\_prime.append(num)

print(list\_of\_prime)