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

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

if num > 0:

print("Positive")

elif num == 0:

print("Zero")

else:

print("Negative")

>>> Enter Number: 3

Positive

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

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

if num % 2 == 0:

print("Even")

else:

print("Odd")

>>> Enter Number: 45

Odd

1. Write a Python Program to Check Leap Year?

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

if (num % 400 == 0) and (num % 100 == 0):

print("Leap Year")

elif (num % 4 == 0) and (num % 100 != 0):

print("Leap Year")

else:

print("Not A Leap Year")

>>> Enter Number: 2000

Leap Year

1. Write a Python Program to Check Prime Number?

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

flag = False

for i in range(2,num):

if num % i == 0:

flag = True

break

else:

pass

if flag:

print("Not Prime")

else:

print("Prime")

>>> Enter Number: 60

Not Prime

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

for Number in range (1, 10000):

count = 0

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

if(Number % i == 0):

count = count + 1

break

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

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