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

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

if UserNumber>0:

print("Number is Positive")

elif UserNumber<0:

print("Number is Negative")

else:

print("Number is Zero")

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

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

if UserNumber % 2 == 0:

print("{0} is Even number".format(UserNumber))

else:

print("{0} is Odd number".format(UserNumber))

1. Write a Python Program to Check Leap Year?

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

# Leap Year Check

if year % 4 == 0 and year % 100 != 0:

print(year, "is a Leap Year")

elif year % 100 == 0:

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

elif year % 400 ==0:

print(year, "is a Leap Year")

else:

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

1. Write a Python Program to Check Prime Number?

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

if num > 1:

for i in range(2,num):

if (num % i) == 0:

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

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

break

else:

print(num,"is a prime number")

else:

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

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

lower =1

upper = 10000

for num in range(lower,upper + 1):

if num > 1:

for i in range(2,num):

if (num % i) == 0:

break

else:

print(num)