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

Ans:-

x= int(input("Enter number "))

if x==0:

  print("number is zero")

elif x>0:

  print("number is positive")

else:

  print("number is negative")

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

Ans:-

x= int(input("Enter number "))

if x%2==0:

  print("Given number is even")

else:

  print("Given number is odd")

1. Write a Python Program to Check Leap Year?

Ans:-

y =  int(input("Enter the year "))

if y%4==0:

  if y%100==0:

    if y%400==0:

      print("given year is leap year")

    else:

      print("given year is not leap year")

  else:

    print("given year is leap year")

else:

  print("given year is not leap year")

1. Write a Python Program to Check Prime Number?

Ans:-

x= int(input("Enter number "))

if x>1:

  for i in range(2,x):

    if x%i==0:

      print(" number is not prime")

      break

  else:

    print("number is prime")

else:

  print("number is not prime")

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

Ans:-

for x in range(1,10000):

  if x>1:

    for i in range(2,x):

      if x%i==0:

        break

    else:

      print(x)