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

a=float(input('enter a number'))

if a >0:

print('number is a positive number')

elif a<0:

print('number is a negative number')

else:

print('number is a zero')

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

a= int(input('enter a number'))

if a % 2==0:

print('the number entered is an even')

else:

print('the number entered is an odd')

1. Write a Python Program to Check Leap Year?

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

if (year % 4 == 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('the number entered is not a prime number')

break

else:

print('the number entered is a prime number')

else:

print('the number entered is not a prime number')