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

Ans-

n=int(input("enter the number to be checked"))

if n==0:

print("its zero")

elif n<0:

print("its negative")

else:

print("its positive")

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

Ans-

n=int(input("enter the number to be checked"))

if n%2==0:

print(f"{n} is even num")

else:

print(f"{n} is odd num")

1. Write a Python Program to Check Leap Year?

Ans-

n=int(input("enter the number to be checked"))

if n%400==0:

print(f"{n} is a leap year")

elif (n%100 == 0):

print(f"{n} is not a leap year.")

elif n%4==0:

print(f"{n} is a leap year")

else:

print(f"{n} is not a leap year")

1. Write a Python Program to Check Prime Number?

Ans-

n=int(input("enter number to be checked"))

c=0

if n<2:

print(f"{n} is not a prime number")

else:

for i in range(1,n+1):

if n%i==0:

c+=1

if c==2:

print(f"{n} is prime number")

else:

print(f"{n} is not a prime number")

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

Ans-

for i in range(2,10001):

c=0

for j in range(1,i+1):

if i%j==0:

c+=1

if c==2:

print(f"{i} is prime number")

else:

print(f"{i} is not a prime number")