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

n = int(input("enter a number = "))

if n > 0:

print(n, "is positive number")

elif n < 0 :

print(n, "is negative number")

else :

print(n, "is zero")

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

n = int(input("enter a number = "))

if n % 2 == 0:

print(n, "is even number")

else :

print(n, "is odd number")

1. Write a Python Program to Check Leap Year?

year = int(input("enter a year = "))

if (year % 4) == 0:

if (year % 100) == 0:

if (year % 400) == 0:

print(year, "is leap year")

else:

print(year, "is not leap year")

else:

print(year, "is leap year")

else:

print(year, "is not leap year")

1. Write a Python Program to Check Prime Number?

n = int(input("enter a number = "))

if n > 1:

for i in range(2,n):

if (n % i) == 0:

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

break

else:

print(n,"is a prime number")

o\p - enter a number = 8

8 is not a prime number

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

for n in range(1, 10000):

if n > 1:

for i in range(2,n):

if (n % i) == 0:

break

else:

print(n)