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("positive")

elif n==0:

print("Zero")

else:

print("Negative")

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("even")

else:

print("odd")

1. Write a Python Program to Check Leap Year?

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

if n%4==0:

if n%100==0:

if n%400==0:

print("leap year")

else:

print("not a leap year")

else:

print("leap year")

else:

print("not a leap year")

1. Write a Python Program to Check Prime Number?

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

c=0

for i in range(2,int(n/2)):

if n%i==0:

c=1

break

if c==0:

print("prime")

else:

print("not a prime")

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

l=[]

for n in range(1,10000):

c=0

for i in range(2,int(n/2)):

if n%i==0:

c=1

break

if c==0:

l.append(n)

print(l)