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

n=int(input('Enter the number'))

if n>0:

print('The number is positive')

elif n<0:

print('The number is negative')

else:

print('The number is zero')

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

def odd\_or\_even(n):

if n%2==0:

print('The number:{} is Even'.format(n))

else:

print('The number:{} is odd'.format(n))

n=int(input('Enter the number'))

odd\_or\_even(n)

1. Write a Python Program to Check Leap Year?

def CheckYear(year):

if (year%4==0 and year%100!=0 or year%400==0):

print('{} is leap year'.format(year))

else:

print('{} is not leap year'.format(year))

year=int(input('enter year'))

CheckYear(year)

1. Write a Python Program to Check Prime Number?

def isprime(n):

flag=False

for i in range(2,n):

if n%i==0:

flag=True

break

if (not flag):

print(f'{n} is a prime number')

else:

print(f'{n} is not a prime')

n=int(input('Enter number'))

isprime(n)

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

def prime\_num():

flag=False

for i in range(1:10000):

Prime\_number\_list=[]

def generatePrimeNumber():

for i in range(1:10000):

flag=False

if i%2==0:

flag=True

break

if (not flag):

Prime\_number\_list.append(i)

def generatePrimeNumber():