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

def check(a):

try:

if a >0:

print("Its a positive number ",a)

elif a<0:

print("Its a negative number ",a)

else:

print("Its a Zero ", a)

except Exception as e:

print("Exception is ",e)

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

def check\_even\_or\_odd():

try:

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

if n%2==0:

print("Even number ",n)

else:

print("Odd number ",n)

except Exception as e:

print ("Exception is ", e)

1. Write a Python Program to Check Leap Year?

def check\_leap\_year():

try:

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

if year%4 == 0:

if year% 100 == 0:

if year % 400 == 0:

print("Its a Leap Year ",year )

else:

print("Its not a Leap Year ",year)

else:

print("Its a Leap Year ",year)

else:

print("Its not a Leap Year ",year)

except Exception as e:

print("Exception is ", e)

1. Write a Python Program to Check Prime Number?

def check\_prime():

try:

n=int(input("Enter a number to check prime or not "))

if n>1:

for i in range(2,n):

if n%i == 0:

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

break

else:

print("This is a prime number ", n)

else:

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

except Exception as e :

print ("Exception is ",e)

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

def prime1():

try:

for i in range(1,10001):

c=0

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

if i%j==0:

c=c+1

if c == 2:

print("This is a prime number ",i)

else:

print("This is not a prime number ",i)

except Exception as e:

print("Exception is ",e)