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

Answer

num=int(input("enter the digit: "))

def check():

if(num>0):

print("number is positive")

elif(num<0):

print("number is negative: ")

else:

print("given digit is zero")

check()

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

Answer

num=int(input("enter the digit: "))

def odd\_even():

if(num%2==0 and num!=0):

print("number is even")

elif(num%2!=0):

print("number is odd")

else:

print("number is zero")

odd\_even()

Write a Python Program to Check Leap Year?

Answer

# Python program to check if year is a leap year or not

year = 2000

# To get year (integer input) from the user

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

# divided by 100 means century year (ending with 00)

# century year divided by 400 is leap year

if (year % 400 == 0) and (year % 100 == 0):

print("{0} is a leap year".format(year))

# not divided by 100 means not a century year

# year divided by 4 is a leap year

elif (year % 4 ==0) and (year % 100 != 0):

print("{0} is a leap year".format(year))

# if not divided by both 400 (century year) and 4 (not century year)

# year is not leap year

else:

print("{0} is not a leap year".format(year))

Write a Python Program to Check Prime Number?

Answer

num=int(input("enter the digit: "))

if(num>1):

for i in range(2,num):

if(num%i==0):

print(num,"is not prime number")

break

else:

print(num, "is prime number")

else:

print(num,"is not prime number")

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

Answer

for num in range(1,10001):

if(num>1):

for i in range(2,num):

if(num%i==0):

break

else:

print(num)