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

Ans :

def check(n):

if n > 0:

print("Positive")

elif n < 0:

print("Negative")

else:

print("Equal to zero")

check(178)

check(0)

check(-54)

o/p : Positive

Equal to zero

Negative

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

Ans :

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

if (num % 2) == 0:

print("{0} is Even number".format(num))

else:

print("{0} is Odd number".format(num))

o/p :

Enter a number: 10

10 is Even number

3. Write a Python Program to Check Leap Year?

Ans:

def checkYear(year):

if (year % 4) == 0:

if (year % 100) == 0:

if (year % 400) == 0:

return True

else:

return False

else:

return True

else:

return False

year = 2020

if(checkYear(year)):

print("Leap Year")

else:

print("Not a Leap Year")

0/p: Leap Year

4. Write a Python Program to Check Prime Number?

Ans:

number = 11

if number > 1:

for i in range(2, int(number/2)+1):

if (number % i) == 0:

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

break

else:

print(number, "is a prime number")

else:

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

O/p : 11 is a prime number

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

Ans :

lower = 1

upper = 10000

for num in range(lower, upper + 1):

if num > 1:

for i in range(2, num):

if (num % i) == 0:

break

else:

print(num)