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

number = 5

if number > 0:

print("Positive")

elif number == 0:

print("Zero")

else:

print("Negative")

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

num=10

if num%2==0:

print(‘num is even’)

else:

print(‘num is odd’)

1. Write a Python Program to Check Leap Year?

year = 2022

if year % 4 == 0:

if year % 100 == 0:

if year % 400 == 0:

print(year, "is a leap year.")

else:

print(year, "is not a leap year.")

else:

print(year, "is a leap year.")

else:

print(year, "is not a leap year.")

1. Write a Python Program to Check Prime Number?

number = 17

if number > 1:

for i in range(2, number):

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.")

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

low = 1

up = 10000

print("Prime numbers between", lower, "and", upper, "are:")

for num in range(low, up + 1):

if num > 1:

for i in range(2, num):

if (num % i) == 0:

break

else:

print(num)