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

number = int(input(“Enter the number: “))

If number == 0:

print(“The number is zero”)

elif number > 0:

print(“the number is positive”)

else:

print(“the number is negative”)

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

number = int(input(“Enter the number: “))

if number % 2 == 0:

print(“the number is even”)

else:

print(“the number is odd”)

1. Write a Python Program to Check Leap Year?

year = int(input(“Enter the year: “))

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

print(f“the year {year} is a leap year”)

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

print(f”the year {year} is a leap year”)

else:

print(f“the year {year}is not a leap year”)

1. Write a Python Program to Check Prime Number?

num = int(input(“Enter the number: “))

if num > 1:

for i in range(2,num):

if num % i == 0:

print(“ the number is not prime”)

break

else:

print(“the number is prime”)

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

for i in range(0,10001):

if i > 1:

for j in range(2,i):

if i % j == 0:

break

else:

print(I, end = “ “)