1. Write a Python Program to Check if a Number is Positive, Negative or Zero?
2. Write a Python Program to Check if a Number is Odd or Even?
3. Write a Python Program to Check Leap Year?
4. Write a Python Program to Check Prime Number?
5. Write a Python Program to Print all Prime Numbers in an Interval of 1-10000?

Answer1:

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

if num > 0:

print("Positive number")

elif num == 0:

print("Zero")

else:

print("Negative number")

Answer 2:

num = int(input("enter the number"))

if num % 2 == 0:

print("Even")

else:

print("odd")

Answer 3:

year = int(input(“enter the year”))

if ((year % 4 == 0 and year % 100 != 0) or (year % 400 == 0)):

print("True")

else:

print("False")

Answer4 :

num = int(input(“enter the number”)

if num > 1:

for i in range(2, num//2):

if (num % i) == 0:

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

break

else:

print(num, "is a prime number")

else:

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

Answer 5:

num = int(input(“enter the number between 1 to 10000”)

if num > 1 or num< 10000:

for i in range(2, num//2):

if (num % i) == 0:

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

break

else:

print(num, "is a prime number")

else:

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

else:

pass