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

Ans : Here's a Python program that checks if a number is positive, negative, or zero:

Python code :

num = float(input("Enter a number: ")) if num > 0: print("Positive number") elif num < 0: print("Negative number") else: print("Zero")

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

Ans : Here's a Python program that checks if a number is odd or even:

Python code

num = int(input("Enter a number: ")) if num % 2 == 0: print("Even number") else: print("Odd number")

1. Write a Python Program to Check Leap Year?

Ans : Here's a Python program that checks if a given year is a leap year or not:

python code

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

Ans : Here's a Python program that checks if a given number is prime or not:

python code

num = int(input("Enter a number: ")) if num > 1: for i in range(2, int(num/2) + 1): 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")

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

Ans: Certainly! Here's a Python program that prints all prime numbers within the interval of 1-10000:

python code

lower = 1 upper = 10000 print("Prime numbers between", lower, "and", upper, "are:") for num in range(lower, upper + 1): if num > 1: for i in range(2, int(num/2) + 1): if (num % i) == 0: break else: print(num)