**B.Sc. (Honors) in Internet of Things and Robotics Engineering**

**1st year 1st Semester Final Examination-2023**

**Course Code: ICT4155**

**Course Title: Structured Programming Language Lab**

**Final Lab**

**Set A**

**Time: 1 hour Marks : 20**

1. An integer is entered through the keyboard. Write a function to obtain the prime factors of this number. For example, prime factors of 24 are 2, 2, 2 and 3 whereas prime factors of 35 are 5 and 7.
2. Write a program to display the numbers that are divisible by 4 and 7 from a 2D array of integers and find the sum of those numbers as well.

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**Set B**

**Time: 1 hour Marks : 20**

1. The series 0, 1, 1, 2, 3, 5, 8, 13, … is called the Fibonacci series. Here, termn=termn-1 + termn-2, for n>1, term0 = 0, term1 = 1. Write a program that finds the sum of first n terms of the series.
2. Write a program to display the numbers that the sum of modulus by 3 and 9 is 3 from a 2D array of integers and find the sum of those numbers as well.