

**FIRST ASSIGNMENT**  
**SEPTEMBER/OCTOBER SEMESTER 2021**

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**BACHELOR OF COMPUTER SCIENCE (HONS.)**  
**(IN COLLABORATION WITH IUKL)**

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**OBJECT ORIENTED PROGRAMMING**  
**(CSC2515)**

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**LECTURER'S NAME : PRAKASH CHANDRA PRASAD**

**GENERAL INSTRUCTIONS**

1. This question booklet consists of 2 pages including this page.
2. There is one **SECTION** in this question booklet.
3. Please submit assignment solution in **SOFT COPY FORMAT**.



**(30 MARKS)**

**There are THREE (3) questions in this section. Answer ALL Questions in the Answer Booklet.**

1. Write JAVA programs that accept alphanumeric strings from the user and identify each character in the string as whether it is alphabet or number.

**Sample output:**

```
Enter a string: a12bc
a - alphabet
1 - number
2 - number
b - alphabet
c - alphabet
```

(10 marks)

2. Explain the concept of a jagged array in JAVA and write a JAVA program to demonstrate a jagged array.

(10 marks)

3. Write a JAVA program to calculate transpose of a given matrix.

(10 marks)