



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

BCA Honours 1st Semester Examination, 2022

CC1-BACHELOR OF COMPUTER APPLICATION (12L) (PRACTICAL)

PROGRAMMING IN C LAB

Time Allotted: 2 Hours

Full Marks: 20

The figures in the margin indicate full marks.

Program Execution: 10

Viva : 05

Lab Assignment Copy: 05

Total: 20

Answer any *one* question on lottery basis

1. WAP in C to reverse a number and find out the sum of digits.

2. WAP in C to find out the number of vowels in a paragraph.

3. WAP in C to count the number of characters, words and sentences in a paragraph.

4. WAP in C to compute the sum of n terms of the following series:

$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots + n$$

5. WAP in C to print the following triangle:

```
      1
     1 2 1
    1 2 3 2 1
   1 2 3 4 3 2 1
  1 2 3 4 5 4 3 2 1
      :
      :
      :
    n terms
```


6. WAP in C to create a function where addresses of two variables are passed and its contents are reversed.

7. WAP in C to generate Floyd's triangle.

8. WAP in C to search an item from a list of items using linear search.

9. WAP in C to arrange n number of integers in descending order using quick sort algorithm.

10. WAP in C to multiply two matrices and find out the transpose of the multiplied matrix.

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