

I B.Sc (Compute Science) – II Semester

C Lab

1. Summation of series

- a) Sin(x)
- b) Cos(x)
- c) Exp(x) (Comparison with built in functions)

2. String manipulation

- a) Counting the no of vowels, consonants, words, white spaces in a line of text and array of lines.
- b) Reverse a string and check for palindrome.
- c) Substring detection, council, removal.
- d) Finding and replacing substrings.

3. Recursion

- a) nPr, nCr
- b) GCD of two numbers.
- c) Fibonocai sequence.
- d) Maximum and Minimum
- e) Towers of Hanoi.

4. Matrix Manipulation

- a) Addition and Subtraction
- b) Multiplication
- c) Transpose and Trace of a Matrix
- d) Determinant of a Matrix

5. Sorting and Searching

- a) Insertion Sort
- b) Bubble sort
- c) Linear search
- d) Binary search