PROGRAMMING LAB

Paper Code **:** **ETCS 154** **P** **C**
Paper **:Programming Lab** **2** **1**

LIST OF EXPERIMENTS

For program development an IDE e.g. CodeBlock[a] , Eclipse CDT [b], Netbeans[c] is recommended

1. Write a program to find divisor or factorial of a given number.
2. Write a program to find sum of a geometric series
3. Write a recursive program for tower of Hanoi problem
4. Write a recursive program to print the first m Fibonacci number
5. Write a menu driven program for matrices to do the following operation
    depending on whether the operation requires one or two matrices

Addition of two matrices
Subtraction of two matrices
Finding upper and lower triangular matrices
Transpose of a matrix
Product of two matrices.

6. Write a program to copy one file to other, use command line arguments.
7. An array of record contains information of managers and workers of a company.
    Print all the data of managers and workers in separate files.
8. Write a program to perform the following operators an Strings without using String
    functions
    To find the Length of String.
    To concatenate two string.
    To find Reverse of a string.
    To Copy one sting to another string.
9. Write a Program to store records of an student in student file. The data must be stored
    using Binary File.Read the record stored in "Student.txt" file in Binary code.Edit the record stored
    in Binary File.Append a record in the Student file.
10. Write a programmed to count the no of Lowercase, Uppercase numbers and special
    Characters presents in the contents of File.
11. Two Mini Projects based on the skills learned in experiments 1-10 [These mini projects may be
    done in a group not exceeding group size of 4]
    [a] http://www.codeblocks.org/
    [b] http://www.eclipse.org/cdt/
    [c] https://netbeans.org/features/cpp/
    Note:- Any 8-10 Experiments out of the list may be chosen.