Noakhali Science and Technology University
Course Title: Structured Programming Language Lab
Course Code: CSTE-1202

LAB-6: User-defined Function

1. Write two different functions max() and min() to compute maximum and minimum of two numbers.
2. Write a program to calculate the value of $^{n}p_{r}$ and $^{n}c_{r}$ using a user-defined function factorial( ) where the input *n* and *r* will be given through keyboard.
3. Write a program to calculate the factorial value of given integer number using recursion.

4. Write a function that takes score as parameter and computes and returns letter grade based on the scale below.

Score	Grade
80 to 100	A
70 to 79	B
60 to 69	C
50 to 59	D
40 to 49	E
Bellow 40	F

5. Write user-defined functions to implement the following built-in String functions:
    strlen
    strrev
    strcpy
    strcat
    strcmp
    strstr
6. Write an menu driven application program using user defined function for each of the following options:
    i)   Odd or Even
    ii)   Leap Year
    iii)   Prime or Not Prime
    iv)   Factorial
    v)   Fibonacci Series
    vi)   Exit