

### Lab Manual

**Course** : CSE -103  
**Credit Title** : Structured Programming  
**Instructor** : Dr. Maheen Islam, Associate Professor, CSE Department

### Lab - 10: Structure

1. Write a C program for the following: Declare a struct named **company**, which has members - **name** of type string, **income** of type float, and **cost** of type float. Using **company** declares an array of size 20 elements and write a program to read the information about all 20 companies. Finally print the profit made by each company in the array using the following formula  
$$\text{profit} = \text{income} - \text{cost}$$
2. Write a C program for the following: Declare a struct named **rectangle** which has three members: length, width and area of type float. Then create an array of ten rectangles prompting from the user the length and width of each rectangle. Next, compute the area of each rectangle in the list by calling a function named **area**. Finally print the length, width and area of each rectangle.