

LAB 1

Spring 2011, BESE- 16

Revision of C++ Arrays and Strings

Objective

- The objective of this lab is to enhance the logic of students using **Arrays** and Strings.

Submission Requirements

You are expected to complete the assigned tasks within the lab session and show them to the lab engineer/instructor.

Tasks for Today

Arrays

Exercise 1:

Selection sort is a sorting algorithm which works as follows:

1. Find the minimum value in the list
2. Swap it with the value in the first position
3. Repeat the steps above for remainder of the list (starting at the second position)

Write a program using functions to sort one dimensional Array by **Selection Sort Algorithm**. The array should be of 20 elements.

Exercise 2:

Write a program that sums up two 2-dimensional arrays into a third one and displays the result. Create a function for summation of the values.

Strings:

Exercise 1:

Write a program which will compare two strings. If both the strings are equal then program should return the result **"Strings are equal"** and if they are not then program should return **"Strings are not equal"**.

To do the exercise you will first check the length of both strings. If length is equal then compare characters of both strings.

Note: Do not use **"STRCMP"** or **"STRLEN"** functions in the above exercise.

Exercise 2:

Write a program which will take one string and one character as an input from user. The character taken from user will be inserted inside the string at a single/multiple locations specified by the user.

For example:

String: Alphabets

Character: x

Location: 3

Resultant String: Alxphabets