LAB SHEET #8

Title: C Programming with Pointer String and function call by reference.

Objective(s):

- To understand programming with Pointer, String and Function call by reference.

Theory: Write short theory on Pointer and Strings.

Write a program to find separately the sum of the positive and negative integer elements of an array of size 10. Pass the positive and negative elements to separate functions eg: sumpositive(int*), sumnegative(int*) to carry out its sum. Also pass this array to a function called sortarray(int[]) and display the array elements into ascending order using pointer.

Lab Exercises (Please Code yourself and show the output to instructor):

1. Write a program to find biggest among three numbers using pointer.
2. Write a program to find the sum of all the elements of an array using pointers.
3. Write a program to swap value of two variables using pointer.
4. Write a program to read a sentence and count the number of characters & words in that sentence.
5. Write a program to read a sentence & delete all the white spaces. Replace all "." by ":".
6. Write a program to read mixed(all) characters into array variable, and separate alphabets and rest others saving to different array variable and display. if e.g. str = ab23c&hfhs^*=+, then alphabets=abchfhs, others = 23&^*=+
7. Write a program to concatenate two strings.
8. Write a program to compare two strings.
9. Write a program to sort 5 string words stored in an array of pointers.
10. Write a program to read the 5 students records (name, roll, and marks scored in percentage). And display the information of students having best score use functions to display the information.
11. Write a program to print the following pattern

```
U N
U N I V
U N I V E R
U N I V E R S I
U N I V E R S I T Y
U N I V E R S I
U N I V E R
U N I V
U N
```