## **Assignment-25: Pointers**

- 1. Write a function to swap values of two int variables. (TSRN)
- 2. Write a function to search all occurrences of a given character in a given string. The result of the search is a list of indices to be stored in the given array.

Prototype: void search all occurrences(char \*str, char ch, int \*arr);

- 3. Write a function to convert a given string into uppercase.
- 4. Write a function to convert a given string into lowercase.
- 5. Write a function to extract a substring from a given string with specified start index (inclusive) and end index (exclusive), and store the extracted string in another char array.

Prototype: void extract\_string(char \*str, int start\_index, int end\_index,
char \*result);

- 6. Write a function to swap strings of two char arrays.
- 7. Write a function to sort an array of int type values.

Prototype: void sort(int \*ptr, int size);

8. Write a function to merge two arrays into a third array.

Prototype: void merge(int \*arr1, int size1, int \*arr2, int size2, int
\*arr3);

- 9. Write a function to move the first value of the array to its correct sorted position such that all smaller values are on the left and greater values are on the right.
- 10. There are five classes with different numbers of students. Each class has an array containing marks of its students.

Write a function that receives an address of an array of pointers to access marks of all students.

The function should find and return the highest marks among all the classes.