Practice Set 8 – Strings

Level 1

1. What would be the output of the following code:

```c
#include <stdio.h>
int main(){
  char s[ ] = "Hello World" ;
  char t[25] ;
  char *ss, *tt ;
  ss = s ;
  while ( *ss != '\0' ){
    *ss++ = *tt++ ;
  }
  printf ( "%s\n", t ) ;
}
```

2. What infromation does the name of an array store?

3. Try to write your own functions for all the pre-defined fuctions of string.h given in the table of the chapter.

Level 2

1. Write a program to print a string entered by user.

2. Write a program to print every character of a string entered by user in a new line using loop.

3. Write a program to input and display the sentence **I love candies**.

4 .Write a program to find the length of the string "refrigerator".

5. Create an array of characters and then print the address of each of the elements of the array. Take difference of two consecutive addresses and compare this with array of integers.

6. Write a program to enter a string s1 and copy it to another string s2.

7. Write a program to compare if the two strings entered by user are equal or not without using predefined String functions.

8. Write a program to check if the letter 'e' is present in the word 'Umbrella'.

9. Write a program to check if the word 'orange' is present in the "This is orange juice".

10. Write a program to find the first and the last occurrence of the letter 'o' and character ',' in "Hello, World".

11. Write the string after the first occurrence of ',' and the string after the last occurrence of ',' in the string "Hello, Good, Morning".

12. Write a program that takes your full name as input and displays the abbreviations of the first and middle names except the last name which is displayed as it is. For example, if your name is Robert Brett Roser, then the output should be R.B.Roser.

Level 3

1. Write down the names of 10 of your friends in an array and then sort those in alphabetically ascending order.

2. Write a program to delete all the consonents from the string "Hello, have a good day".

3. Write a program to delete the word "the" in the sentence "This is the lion in the cage".

4. Write a program to reverse a string with and without using strrev.

5. Write a program to find the length of a string without using predefined String functions.

6. Check the occurrence of the letter 'e' and the word 'is' in the sentence "This is umbrella" without using predefined String functions.

7. Write a program to find the number of vowels, consonents, digits and white space characters in a string

8.Write a program to concatenate two strings "Hello" and "World" without using strcat.

9.Write a program to find out the largest and smallest word in the string "This is an umbrella".

10.Write a program to check if a given string is a Palindrome. A palindrome reads same from front and back e.g.- aba, ccaacc, mom, etc.

11.Write a program to check if the two strings entered by user are anagrams or not. Two words are said to be anagrams if the letters of one word can be rearranged to form the other word. For example, jaxa and ajax are anagrams of each other.