COMPUTER PROGRAMMING LAB (CS110)
ASSIGNMENTS–10

1. Write a program in C to print the address of each character in a given string. The string is user input.

2. Write a menu-based (use `do... while` loop to create the menu) program in C to perform following operations on strings. Also try the following (i- iv) using library functions and check if your program is correct.

   i. Concatenate two strings without using the `strcat` function. The strings are user inputs.
   ii. Compare two strings without using the `strcmp` function. The strings are user inputs.
   iii. Calculate length of a string without using the `strlen` function. The string is a user input.
   iv. Copy one string to another string without using the `strcpy` function. The string is user input.
   v. "exit" to terminate the program.

3. Write a program in C to convert all lowercase characters to uppercase in a string. The string is user input.

4. Write a program in C to check if a string is a palindrome or not. The string is user input.

5. Write a program in C to reverse a string. The string is user input.

6. Write a program in C to word-wise reverse a string. The string is user input. For instance for input string

   ```
   This is an example.
   ```

   the output should be

   ```
   example. an is This
   ```

7. Dynamically allocate memory for n number of strings. Take n strings as input from the user. Write a function to display them. Strings can be of different length.

8. Write a function to sort the strings in the previous program alphabetically.