भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Information Technology Guwahati

COMPUTER PROGRAMMING LAB (CS110)
ASSIGNMENTS–10

1. Write a menu-based (use `do... while` loop to create the menu) program in C to perform following operations on strings.

    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.

2. Write a program in C to calculate the number of vowels in a string. The string is user input.

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

4. Write a program in C to reverse a string. The string is user input. **Without** using string.h

5. Write a program in C to count the number of words in a function.

6. Write a program in C to print locations (index) of given word in a sentence.

7. 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

8. Write a program in C to find the number of times a given word 'the' appears in the given string.

9. Write a program in C to remove characters from a string except alphabets.