



**भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी**  
**Indian Institute of Information Technology Guwahati**  
**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:
  - i. Concatenate two strings without using the `strcat` function. The strings are user inputs.
  - ii. Concatenate two strings using the `strcat` function. The strings are user inputs.
  - iii. Compare two strings without using the `strcmp` function. The strings are user inputs.
  - iv. Compare two strings using the `strcmp` function. The strings are user inputs.
  - v. Calculate length of a string without using the `strlen` function. The string is a user input.
  - vi. Calculate length of a string using the `strlen` function. The string is a user input.
  - vii. Copy one string to another string without using the `strcpy` function. The string is user input.
  - viii. Copy one string to another string using the `strcpy` function. The string is user input.
  - ix. A menu "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 calculate the number of vowels in a string. The string is user input.
5. Write a program in C to check if a string is a palindrome or not. The string is user input.

6. Write a program in C to reverse a string. The string is user input.
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 word-wise reverse each sentence in a paragraph. The paragraph (string) is user input. For instance, for input string

This is an example. Another sentence goes here.

the output should be

example an is This. here goes sentence Another.

9. Given a non-negative integer  $n \in [0, 100000000]$ , write a program in C to print it in words. For instance, for the input integer  $n = 19450274$ , the output should be

One Crore Ninety Four Lakh Fifty Thousand Two Hundred Seventy Four