

Introduction to Computing Laboratory

Assignment No. – 10

1. Write a program in C to accept a word (string) through the keyboard and convert all the characters in lower / upper case. Then check whether the word is palindrome or not.
2. Write a program in C that will accept a sentence as input with some extra spaces in between two words in the sentence. Then remove extra spaces such that only one space will remain in between any pair of words.
3. Write functions in C for the following purpose.
 - (a) To accept a string as an argument and return the length of the string.
 - (b) To accept a string as an argument and reverse the string.
 - (c) To concatenate two strings into a third one.
 - (d) To compare two strings character by character such that the function returns zero if the strings are similar. Otherwise the function returns the difference between the ASCII values of the two first-mismatching characters.
 - (e) To copy a string in another.

In all the above cases you are to test the functions by calling them from main.

4. Write a program in C to accept a full name and convert it to initial name as per the following examples. (*Sachin Ramesh Tendulkar* → *S. R. Tendulkar*, *Rahul Indra* → *R. Indra*)
5. Write a program to accept two numbers as strings, add them as integers and print the result as string.

Example: Accept "13" and "27" → 13+27=40 → print "40".
6. Write a program to accept 10 names in a two-dimensional array where each row represents a name (string). Now sort the names alphabetically. (*Note: you may also use an array of pointers to strings*).