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RVCE24MCA095

String Operations

To find the length of the string, merge two strings, comparison if the are equal or which one is greater.

- Strings are used for storing text / characters.

* Algorithm:

Step 1: Declare character arrays str1, str2 and copy to store strings.
Step 2: Enter the first and second string values.
Step 3: Performing String Operation:-
- Concatenation - Copy str1 into a temporary string
  Append str2 to the temporary string
  printing the concatened result.
- Comparison - Comparing str1 and str2, if they are equal are not or greater.
- Find length - Compute and print the length of str1.

* Program:

```
#include<stdio.h>
#include<string.h>
void stringConcatenation(char str1[], char str2[]);
void stringComparison(char str1[], char str2[]);
void stringlength(char str[]);
int main(){
    char str1[100], char str2[100];
    printf("Enter first string:");
    gets(str1);
```

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```
printf("Enter second string: ");
gets(str2);

stringConcatenation(str1, str2);
stringComparison(str1, str2);
stringlength(str1);
return 0;
}
void stringConcatenation(char str1[], char str2[]){
    char result[200];
    strcat(result, str1);
    strcat(result, str2);
    printf("Concatenated string: %s\n", result);
}
void stringComparison(char str1[], char str2[]){
    int cmp = strcmp(str1, str2);
    if(cmp==0)
        printf("strings are equal\n");
    else if(cmp>0)
        printf("First string is greater than the second.\n");
    else
        printf("First string is smaller than the second.\n");
}
void stringlength(char str[]){
    printf("length of the string: %lu\n", strlen(str));
}
```

Input:- Enter first string: hello
Enter second string: world
Output:- Concatened string: helloworld
First string is smaller than the second.
length of string: 5.