EXPERIMENT NO: 10

TITLE: Write functions to implement string operations such as compare, concatenate, string length. Convince the parameter passing techniques.

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6. PROCEDURE / PROGRAMME / ACTIVITY:
#include<stdio.h>
void stringlength(char str1[100])
       int i=0;
       while(str1[i]!='\0')
            i++;
       printf("The length of %s is %d\n",str1,i);
void stringcompare(char str1[100], char str2[100])
      int i, flag=1;
      for(i=0; str1[i]!='\0'|| str2[i]!='\0'; i++)
               if(str1[i] != str2[i])
                      flag = 0;
                      printf("Strings are different\n");
                      break:
      if(flag)
              printf("Strings are equal\n");
void stringconcatenate(char str1[100], char str2[100])
      int i, j;
      for(i=0;str1[i]!='\0';i++);
      for(j=0;str2[j]!='\0';j++,i++)
              str1[i]=str2[j];
      str1[i]='\0';
      printf("Concatenated string is %s\n",str1);
void main()
      char str1[100], str2[100];
      printf("Enter string1\n");
      scanf("%s",str1);
      printf("Enter string2\n");
      scanf("%s",str2);
      stringlength(str1);
      stringlength(str2);
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stringcompare(str1,str2);
      stringconcatenate(str1,str2);
OUTPUTS:
Enter string1
vivekananda
Enter string2
College
The length of vivekananda is 11
The length of college is 7
Strings are different
Concatenated string is vivekanandacollege
Enter string1
Enter string2
Laboratory
The length of c is 1
The length of laboratory is 10
Strings are different
Concatenated string is claboratory
Enter string1
program
Enter string2
Program
The length of program is 7
The length of program is 7
Strings are same
Concatenated string is programprogram
Enter string1
Very
Enter string2
Good
The length of program is 4
The length of program is 4
Strings are same different
Concatenated string is verygood
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ALGORITHM:
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STEP 1: START

STEP 2: READ str1(First String)

STEP 3: READ str2(Second String)

STEP 4: Call the functionstringlength(str1)

STEP 4: Call the function stringlength(str2)

STEP 4: Call the function stringcompare(str1,str2)

STEP 4: Call the function stringconcatenae(str1,str2)

STEP 5: STOP

ALGORITHM TO FIND STRING LENGTH

STEP 1: Start

STEP 2: Initialize **i=0**

STEP 3: check (str1[i]!= '\0')

if yes i = i + 1 got STEP 3

if no display the length of the string stored in variable i

STEP 4: Stop

ALGORITHM TO FIND STRING COMPARE

STEP 1: Start

STEP 2: Initialize flag=1

STEP 3: Initialize **i=0**

STEP 4: check (str1[i] != '\0'|| str2[i] != '\0')

if yes check (str1[i] != str2[i])

if yes flag = 0, display "Strings are different" goto STEP 5

if no goto STEP 4

STEP 5: check (flag ==1)

if yes display "Strings are equal"

STEP 6: Stop

ALGORITHM TO STRING concatenation

STEP 1: Start

STEP 2: Initialize **i=0**

STEP 3: check (str1[i] != '\0')

if yes i = i + 1 goto STEP 3

if no goto STEP 4

STEP 4: Initialize **j=0**

STEP 5: check (str2[j] != '\0')

if yes str1[i] = str2[j], i=i+1 j=j+1 goto STEP 5

if no goto STEP 6

STEP 6: str1[i] = '\0' (place NULL character at the end of string str1)

STEP 7: display concatenated string present in character array str1

STEP 8: Stop

FLOWCHART:





