strings

MV

In a language strings are treated as arrays of type char and are terminated by a Null character ('10'). This Null character has ASCII Value as Zero.

These are the two forms of initilization of a string variable

char str[10] = { 'I', 'N', 'D', 'I', 'A', '10' };

Char str[10] = "India"; Here '10' is auto
-matienly placed by the compile

at the end of string.

Strings are generally used to store and manipulate data in text form like words or sentences.

String Variables:

To create a string variable we need to declare a character array with sufficient size to hold all the characters of the strip including NULL Character.

Char str[] = { "I', 'N', 'D', 'I', 'A', '\0'};

char str[] = "India";

Here the string constant does not represent an address. The array will be Stored in memory as:-

1000 1001 1002 1003 1004 1005 I N D I A 101/ str[0] str[1) str[2) str[3] str[4] str[5]

Address = 1000 Character = I = 1001 = N 1002 = D . = T = A1004

String Library functions

1) strlen()

Returns the length of string i.e number of characters in the string excluding the terminating NVII character. for Example

Void main ()

char str [20]; int length; printf (" Enter the Strip"); Scarf (4%8", str) 9

length = strlen (str); MV 3

frintf ("Length of the strip is %d", length);

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2) skcmp()

This function is used for comparision of two strings. If the two string matches, stromp returns a value O, otherwise it returns non-zero value. This function compares the strings character by characters in the two string are same or not. The non-zero value returned on mismatch is the difference of the ASCII value of the non matching characters

20 when \$1282

=0 when s1 == 82

>0 when SI > 82

for Example

Void main ()

Char str. [10], 8+22[10]; frint ("Enter first string"); 8canf ("1.84, 8+21);

Scarf (4%. 84 Str2);

stromp (81,82) return tue value

AS

of ((strcmp(strl, str2))

==0))

printf ("strings

are equal")

Else

printf ("Not Equal")

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This function is used for copying one string to another string strepy (str. 1, 8+2) copies str2 to str. 1. Here str2 is the source string and str 1 is destination string.

Void main ()

Chas stil [10] = "India"; chas stil [10] = "Mumbai"; sticky (stil, stil); print ("% & % & 4, stil, stil);

4) stecat ()

This function is used for concatenation of two strings. If first string is "king" and second string is "kong" then after using this function the first string becomes "Kingkong".

⇒ streat (str1, str2);

Here str2 is concalenate at the end
of str1.

Void main ()

E char str1 = 4 Kinp4;

char str2 = 4 Kong4;

-strcat (str1, str2);

frintf (47084, str1);

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