STRING HANDLING IN C++

CONTENT

S:

- String
- String inputs
- Array of string
- String function

STRIN G

- A collection of characters written in double quotation is called string.
- It may consist of alphabatic characters, digits and special symbols.

STRING DECLARATION

C++ stores a string as an array of characters. An array is a group of contegious memory location that can be stored same type of data.

So, the string declaration is same as array declaration. e.g

- \Box int a[20]
- \Box char ch[50] etc.

STRING INITIALIZATION

A string variable can be initialized with a string value as follows: char str[50]="oop in c++"; It can also initialize without defining the length of string:

Char a[]="pakistan";

STRING INPUTS

The cin object is used to input a string value without any blank space. It does not support a string with spaces.

CIN.GETLIN E()

- The cin object is used to input a string value including blank space.
- □ The syntax of this function is:
- Cin.getline(str,len);

CIN.GET

The get() function of cin object is used to input a single character. The syntax of this function is as follows: cin.get(ch);

STRING FUNCTIONS (STRING.H) STRCMP():

The strcmp() is used to compare two string character by character. It return 0 for two equal strings, 1 for first string is greater than second string and -1 for first string is less than second string

Syntax:

strcmp(str1,str2);

```
#include <iostream>
#include <cstring>
using namespace std;
int main()
char string1[];
char string2[];
int result;
cout << "enter first string: " << endl;</pre>
cin >> string1;
cout << "enter second string: " << endl;</pre>
cin >> string2;
result = strcmp( string1, string2 );
switch( result )
case (1):
cout << "First string is greater than second string " << endl;</pre>
break;
case (-1):
cout << "First string is less than second string " << endl; }</pre>
```

STRCPY()

The word strcpy stand for string copy.so the function strcpy() is used to copy one string to another.

Syntax:

strcpy(str1,str2);

```
/* strcpy example */
#include <iostream>
#include <string.h>
int main ()
char str1[]="Sample string";
char str2[40];
char str3[40];
strcpy (str2,str1);
strcpy (str3,"copy successful");
Cout << str1 << str2 << endl;
```

STRLEN():

The word strlen stands for string length. The function is used for find the length of string. This includes all character and spaces as well Syntax: strlen(str);

```
#include<iostream>
#include<cstring>
using namespace std;
int main()
char data[50];
int size=0;;
cout << "please input the word \n";
cin>>data[50];
size=strlen(data);
cout<<"the number of letters is "<<size;
return 0;
```

STRCAT()

Strcat() is used to append a copy of one string to the end of another;

Syntax:

strcat(str1,str2);

```
//Example concatenates two strings to output //By
asking the user for input
#include <cstring>
#include <iostream>
using namespace std;
int main()
char s1 = new char[30];
char s2 = new char[30];
cout<<"Enter string one(without spaces): ";</pre>
cin>>s1;
cout<<"Enter string two(without spaces): ";</pre>
cin>>s2;
cout << streat(s1, s2);
```

Thank 1/0u/