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String in C++

What is String?

The sequence of character enclosed within double quote is called as string. There are two way we can implement string concept in C++.

1. By using C- Style character string:

In this we can implement string using array of type char. This way we can already learn in c language.

2. By using string class:

A C++ string is an object that is a part of the C++ standard library. It is an instance of a "class" data type, used for convenient manipulation of sequences of characters. To use the string class in your program, the <string> header must be included. The standard library string class can be accessed through the std namespace.

Syntax to declare string object: string objectname;

Example: string s1;

Reading string from console:

1) Reading one word string:

Example 1: String variable of type character array.

```
#include<iostream>
#include<string>
using namespace std;
int main()
{
        char s1[20];
        cout<<"Enter String:";
        cin>>s1;
        cout<<endl<<"Your Entered String:"<<<s1;
}</pre>
```

Example 2: String variable/object of type string class.

#include<iostream>
using namespace std;
int main()

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```
string s1;
      cout<<"Enter String:";
      cin>>s1;
      cout<<endl<<"Your Entered String:"<<s1;
}
2) Reading one line string:
   Example 1: String variable of type character array.
   #include<iostream>
   #include<string>
   using namespace std;
   int main()
   {
      char s1[20];
      cout<<"Enter String:";
      cin.getline(s1,20);
      cout<<endl<<"Your Entered String:"<<s1;</pre>
   }
   Example 2: String variable/object of type string class.
   #include<iostream>
   #include<string>
   using namespace std;
   int main()
                               INFORMATIC
   {
      string s1;
      cout<<"Enter String:";
      getline(cin, s1);
      cout<<endl<<"Your Entered String:"<<s1;</pre>
   }
3) Reading multiline string:
   Example 1: String variable/object of type string class.
   #include<iostream>
   #include<string>
   using namespace std;
   int main()
      string s1;
      cout<<"Enter String:";
      getline(cin, s1, '$');
      cout<<endl<<"Your Entered String:"<<s1;</pre>
   }
```

String Class Inbuilt Functions

Function	Description
int compare(const string& str)	It is used to compare two string objects.
int length()	It is used to find the length of the string.
void swap(string& str)	It is used to swap the values of two string objects.
string substr(int pos,int n)	It creates a new string object of n characters.
int size()	It returns the length of the string in terms of bytes.
void resize(int n)	It is used to resize the length of the string up to n characters.
string& replace(int pos,int	It replaces portion of the string that begins at character position
len,string& str)	pos and spans len characters.
string& append(const string&	It adds new characters at the end of another string object.
str)	
char& at(int pos)	It is used to access an individual character at specified position
	pos.



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