Topic :

Namesapce:

Let's take a situation where there are two students with the same name in an institution.  Then we have to differentiate them in a different manner and more likely we have to add some more information along with their name, like roll number or parents name or email address. The same situation may arise in C++ programming also where you might write some code having function name  i.e. fun() and there is already existing another library having same function name. This makes the compiler halt down and left it with no way to know which of these two function to use within the C++ program. Namespaces are used to solve this situation.

**NameSpace Definition :**

Namespaces provide a scope for identifiers (variables, functions etc) within own declarative region. Namespaces are used to systematize code in logical groups which prevents naming conflict, which can occur especially if there are multiple libraries with single names in your code base

**Syntax:**

namespace namespace\_name {

// code declarations

}

Program 1:

#include<iostream>

using namespace std;

// first name space

namespace firstone {

void fun()

{

cout << "This is the first NS" << endl;

}

}

// second name space

namespace secondone {

void fun()

{

cout << "This is the second NS" << endl;

}

}

using namespace firstone;

int main()

{

// calls the function from first namespace.

fun();

}

Output:

This is the first NS