

Agenda

- Access Specifier in structure
- Namespace
- scope resolution operator
- cin,cout
- Inline function
- Function Overloading

Access Specifiers in structure (demo01.cpp)

- by default members of structure are public.
- 1. private
 - if we dont want to allow the visibility of members outside the structure then make them as private
- 2. public
 - if we want to allow the visibility of members outside the structure then make them as public

Namespace (demo02.cpp to demo07.cpp)

- Their are "n" no of variations for examples in namespace.
- It is a container which is used to hold variables/functions/structures/ classes
- To access the members of a namespace you have to use one operator.
- the operator that we are going to use is (::) scope resolution operator
- you cannot initiate the namespace

Cin Cout (demo08.cpp & demo09.cpp)

- to take input from user and display the output on console
- it is replacemnet for your printf() and scanf()
- cin is an external object of istream class
- cout is an external object of ostream class
- these objects are kept inside the std namespace
- cin -> (>>) Extraction opertaor
- cout -> (<<) Insertion Operator

Inline Function (demo10.cpp)

- It is just a request made to the compiler
- It is accepted if the execution time is very less as compared to the function call.
- For inline function the compilation time increases but the execution time decreases.

Function overloading (demo11.cpp)

- having multiple functions with same name but different signature
- For function overloading you should follow the rules as per below
 1. Keep the name of functions same
 2. The signature should be different
 - a. if type of arguments and count are same then no of parameters should be different for the next function
 - b. if count of parameters is same then their types should be different
 - c. If type and no of parameters are same then their order should be different
 3. Return type is not considered
- Function overloading is an example of Polymorphism
- It is an example of compile time polymorphism
- It is possible because of a concept called as name mangling