

Agenda

Default Argument Function
Class
DataMember
MemberFunctions
Object
this pointer
Access Specifier

Default Argument Function (demo.cpp)

- If for a same function call we are passing multiple no of arguments then instead of doing function over loading we can also go for default argument function
- Default argument function can be only used if there is no major change in business logic with the change in no of arguments
- The default value should be assigned from the rightmost parameter
- The default value depends on what is the logic/expression used inside the function

class (demo01.cpp)

- it is a logical entity
- class is also called as blueprint of an object
- It holds data members and member functions
- By default members of class are private

Object (demo01.cpp)

- it is a physical entity
- object has 3 things
 1. state (Data members)
 2. behaviour (Member functions)
 3. identity (Address)

Memory diagram for working of class and object (demo02.cpp)

this pointer (demo03.cpp)

- it is a constant pointer which is passed internally to all the member functions of the class.
- it holds the address of current calling object.
- use of this is optional but it is always better to use it as it is a industry standard.

Access Specifier

1. private
2. public
3. protected
 - this is generally used at the time of inheritance
 - eg we will look at the time of inheritance

Member Functions

1. Construtor
2. Destructor
3. Inspector
4. Mutator
5. Facilitator

Inspector,Mutator and facilitator (demo04.cpp)

1. inspector

If we want to fetch the value of a single data memebr of a class outside the class then you can access it with 2 ways.

 - a. by making them as public (which is not recomended)
 - b. by writing a inspector
2. Mutator

If we want to change the value of a single data memebr of a class outside the class then you can change it with 2 ways.

 - a. by making them as public (which is not recomended)
 - b. by writing a mutator
3. facilitator
 - All the functions which perform Logical operations or have Business Logic with the data members, such member fuctions are called as facilitators