

Agenda

Exception handling
Operator Overloading
Constant Object
Association
Inheritance

Exception Handling (demo01.cpp to demo03.cpp)

- to separate the BL from Error handling logic
- 1. try
 - it is block inside which we are going to call the functions which are going to throw the error.
 - every try block must have atleast one catch block
- 2. catch
 - this block is going to handle the thrown error.
 - catch block is always kept after the try block.
 - we can write multiple catch blocks depending on type of error thrown
 - if we want to handle all types of errors ins a single catch block then we can write a generic catch block.
- 3. throw
 - this is used to genereate an error.
 - by using throw we can generate error of all types(int,float double,etc..)

Operator Overloading (demo04.cpp & demo05.cpp)

- If you want to perform some operations on user defined objects with the help of operators then you need to overload them
- Few Operators can be overloaded as a member functions and as a non member function as well.
- Some operators can be only overloaded using member functions only.
- Few operators cannot be overloaded.

Constant object (demo06.cpp)

Hirerachy(Association) (demo07.cpp)

- If the relation between two entities(objects) is of type has-a, then we say it is association
- if the two entities are tightly coupled we call them as composition
- if the two entities are loosely coupled we call them as aggregation

Inheritance (demo08.cpp)

- If the relation between two entities(objects) is of type is-a, then we say it is inheritance
- If you want to access your data members inside your child class but not outside the class in non member functions then make such data members as protected.
- Their are 5 types of inheritance
 1. Single
 2. Multiple
 3. Multilevel
 4. Hirerachical
 5. Hybrid