

Agenda

- Casting Operators
- RTTI
- template class
- STL

Casting Operators (demo01 to demo04)

- 1. `dynamic_cast`
 - when inheritance is done and classes are polymorphic
 - i.e the base class have atleast 1 virtual function
 - When dynamic cast fails it returns NULL.
- 2. `static_cast`
 - when inheritance is done and classes are non polymorphic
- 3. `reinterpret_cast`
 - when inheritance is not done i.e there is no relation between two classes and still we want to convert pointer of one class type into another
- 4. `const_cast`
 - If we want to change the constant pointer type to non constant pointer then `const_cast` is used.

RTTI (Runtime Type Information) (demo05)

template class (demo06)

STL (Standard Template Library)

- 1. Algorithms
- 2. Containers
- 3. Function Objects (Functors)
- 4. Iterators