

C++

A S R Pavan
Scientist 'B'
NIELIT Calicut

- Inheritance
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 - Protected access specifier
 - Access rights
 - Single Inheritance
 - Multiple inheritance
 - Multi-Level Inheritance
 - Constructors and Destructors
 - Passing args to base class constructors

- Inheritance provides the capability to create new class from existing classes which derive properties and characteristics from existing class.
 - Super class: Base class :: existing class
 - Sub class: derived class :: newly created class
- Syntax:
 - `Class_name derivedclass : access-specifier baseclass`
- Inherits all except:
 - Constructors, destructors and copy constructors of base class
 - Overloaded operators & friend functions of base class

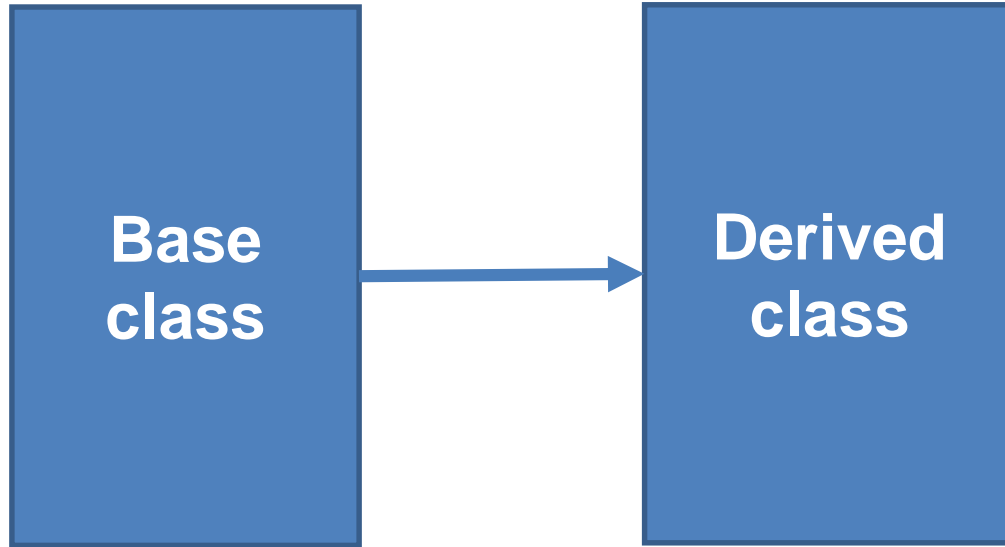
Protected access specifier

- Can't be accessed from outside of its class except with the help of friend class
- Protected class members can be accessed by any derived class (sub class) of the base class

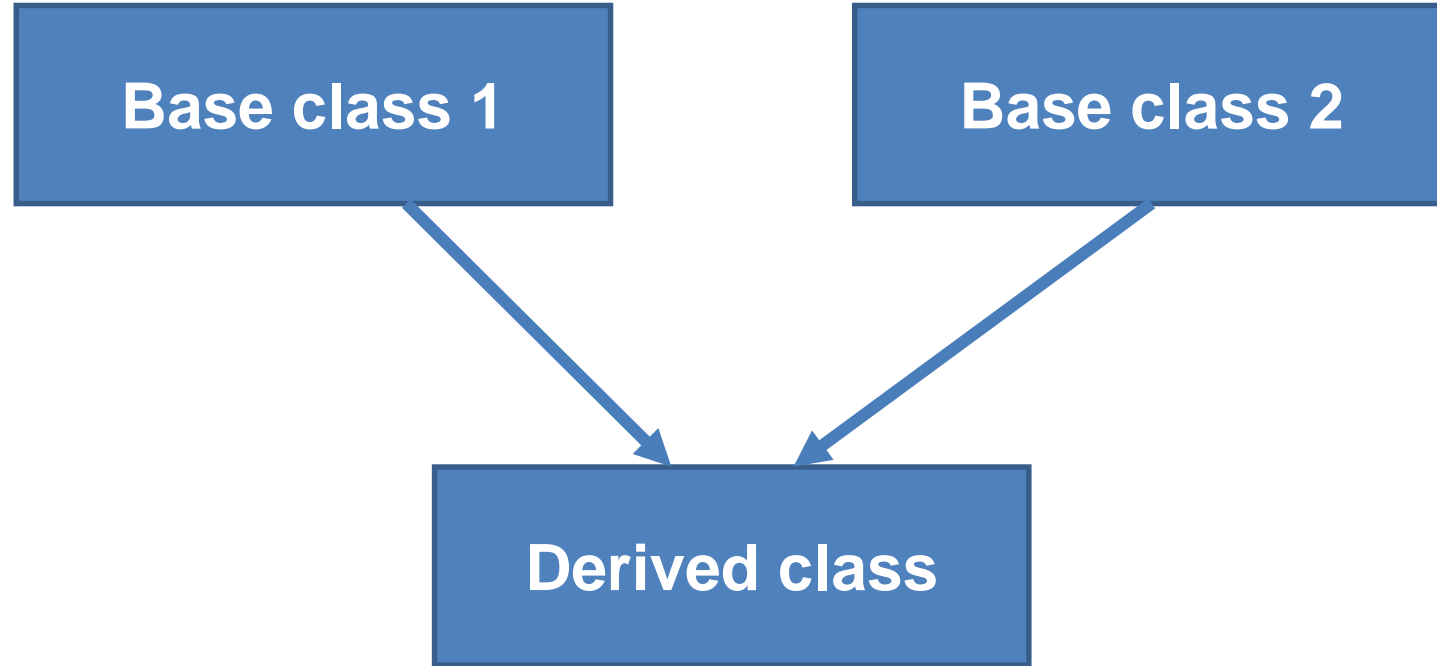
- Inheritance

Base class member access specifier	Type of Inheritance			
		Public	Protected	Private
	Public	Public	Protected	Private
	Protected	Protected	Protected	Private
	Private	Not accessible	Not accessible	Not accessible

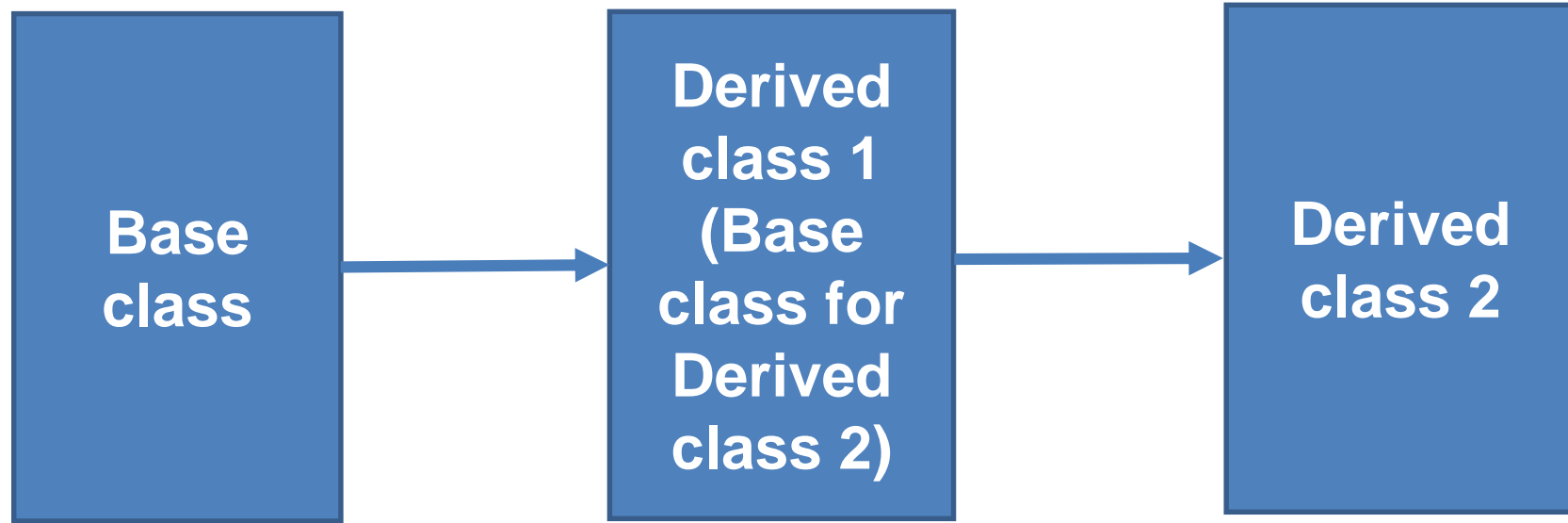
Single Inheritance



Multiple Inheritance



Multi-Level Inheritance



Constructors & Destructors

- Order of Inheritance for constructors
- Order of Inheritance for destructors

Passing args to base class constructors



- Selection of base class constructors with overloading constructors

Q&A

End of the session

Thank You