# **Constructor in Inheritance**

#### **Default constructor of Base class**

- Default Constructor of Base class will be called when object of Derived class is created.
- If Base class is having nay user-defined constructor then it must also have user-defined default constructor

## Calling Parametrised constructor of Base class

It should be called from constructor of Derived class **Example:** 

#### **Private member of Base in Derived class Constructor**

No. Private members of Base class are not accessible in derived class. Private members of Base class are inherited to Derived class, but not accessible.

# **Copy Constructor by reference**

- Copy constructor must take parameter by reference. If it is taking parameter by value then it has to create an object and it will class constructor again.
- It may become recursive call to the constructor. Constructor calling constructor.

## **Private Constructor**

Yes constructor can be declared as private, but we cannot create the object directly. It can be done using static functions

# Example:

## **Virtual Base class**

I multiple-path inheritance, a derived class may get the duplicate features via multiple parent classes. To avoid duplicacy we make parent class as virtual