Int x

Class Stame;

student

{

Int rn;

String name;

String batchCode;

Int marks;

}

Student student1 = new Student();

Student1.Get();

Student student2 = new Student(name:”Deepak”)

**Constructors**

Are methods which are used to initialize member variable of an object

Features of a Constructor.

1. They are methods which are used to initialize member variable of an object
2. Their name is same as class name
3. They do not have any return type
4. Like Methods, they don’t have to called, they are automatically called / invoked at timeof object declaration
5. They follow polymorphism

Type of Constructors

1. Default Constructors > These are the constructors which do not take any parameters. They are parameter less. They are there by default within a class **(ONE)**
2. Parameterized Constructors > These are the constructors in which pass parameters. **(MULTIPLE)**
3. Private Constructors > These are used for creating objects within a class **(MULTIPLE)**
4. Copy Constructors> **These are the constructors which are used to copy values of one object to other**
5. **Static Constructors > These are used to initialize static members of a class(ONE And that too should be parameter less & with no Access Specifier)**

If within a class there are constructors along with Static Constructor, Static Constructor will be always invoked first & only one time

Inheritance > It Is used to derive features of one class to other

Class from which features are derived is called Base Class / Parent Class / Super Class

Class from which features are derived is called Derived Class / Child Class / Sub Class

**What is the purpose of Inheritance > REUSABLITY**

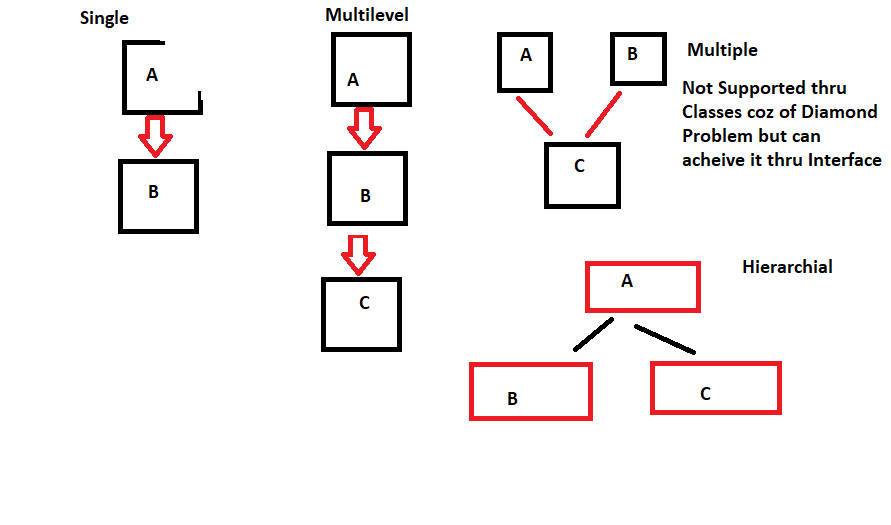
Syntax :

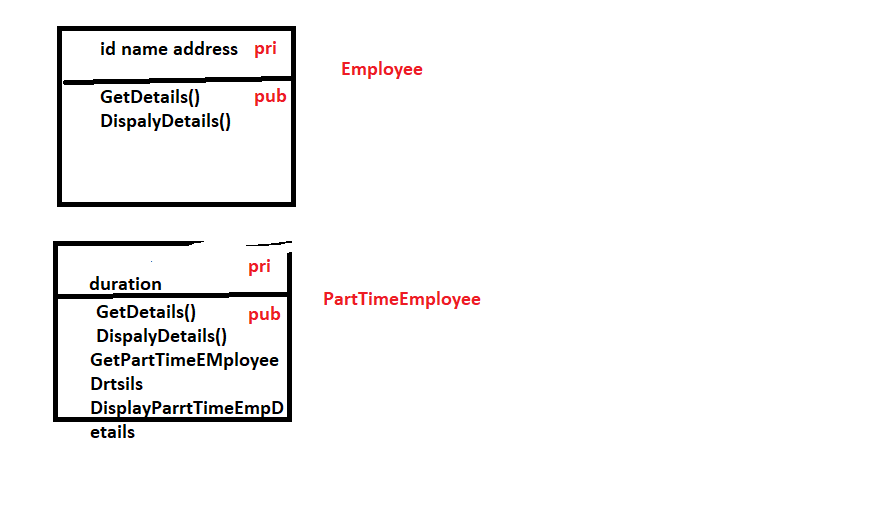
Clas baseclass {}

Class childclass **:** baseclass{}

Type of Inheritance

1. Single Inheritance
2. Multilevel
3. Multiple ( Not supported with classes)
4. Hierarchial
5. Hybrid (Not supported with classes)





Method Overriding > Overriding / Overwriting methods of base or parent class in child class

Signature remains same