**Inheritance**

Inheritance is use to inherits or acquire the properties and behaviour of old class to new class.

class OldClass { super class or base class or parent class

property

behaviour

}

class NewClass extends OldClass{ sub class or child class or derived class.

property

behaviour

}

Types of inheritance

1. Single inheritance : one super class and one sub class

Class A { }

Class B extends A {}

1. Multilevel inheritance: one super class and n number of sub classes connected one by one

Class A { }

Class B extends A { }

Class C extends B {}

Class D extends C {}

1. Hierarchical inheritance : one super class and n number of sub classes connected directly to super class.

Class A { }

Class B extends A { }

Class C extends A {}

Class D extends A {}

1. Multiple inheritance : more than one super class and one sub class.

Class A {}

Class B {}

Class C extends A,B{} Java doesn’t support this type of inheritance. Means we can’t extends more than one class at the same time. This type of inheritance we can achieve using interface.

**Oops relationship**

**Is a relationship**

**Has a relationship**

Class Employee extends Manager{

}

Class Manager extends Employee{

}

Class Developer {

}

Class ProjectManager {

}

Class Address {

}