

How to call super class constructor  
When we write a class in java and we don't write any kind of constructor in the class then the java compiler will automatically provide a constructor which is called as no argument constructor. If we want to call our own constructor or if we want to call constructor of parent class then we have to use super keyword.

In case if we want to call constructor of parent class then we have to use super keyword.

super Keyword refers to overridden super class.

In order to call super class constructor from current class constructor, We have total 4 cases:

**Case 1:** Community class by base constructor. It is used to call super class without OA No argument.

```
public class Base {
    public Base() {
        System.out.println("Super constructor of base class");
    }
}

public class Derived extends Base {
    public Derived() {
        System.out.println("Derived constructor of base class");
    }
}

public class Main {
    public static void main(String[] args) {
        Derived d = new Derived();
    }
}
```

The following program makes a default no argument constructor of super() will be called automatically to give constructor code of class to empty.

class Main {
 public static void main(String[] args) {
 Derived d = new Derived();
 }
}

**Case 2:** How to write by constructor. It is used to call parameterized constructor of super class where super class has derived base constructor and accept one parameter of type String.

```
public class Base {
    public Base(String s) {
        System.out.println("Base constructor");
    }
}

public class Derived extends Base {
    public Derived(String s) {
        System.out.println("Derived constructor");
    }
}

public class Main {
    public static void main(String[] args) {
        Derived d = new Derived("Hello");
    }
}
```

**Case 3:** How to be written by user. It is used to call no argument constructor of current class.

```
class Alpha {
    public Alpha() {
        System.out.println("Alpha constructor");
    }
}

class Beta extends Alpha {
    public Beta() {
        System.out.println("Beta constructor");
    }
}

public class Main {
    public static void main(String[] args) {
        Beta b = new Beta();
    }
}
```

**Case 4:** OA(OC) How to be explicitly written by user. It is used to call parameterized constructor of current class.

```
public class Alpha {
    public Alpha(String s) {
        System.out.println("Parameterized constructor of Alpha class : "+s);
    }
}

public class Beta extends Alpha {
    public Beta() {
        System.out.println("No argument constructor of Beta class");
    }
}

public class Main {
    public static void main(String[] args) {
        Beta b = new Beta();
    }
}
```

**Program on Parameterized Inheritance:**

```
class Base {
    int a;
    int b;
    int c;
    int d;
    int e;
}

class Derived extends Base {
    public Derived(int a, int b, int c, int d, int e) {
        System.out.println("Base class value is : "+a);
        System.out.println("Base class value is : "+b);
        System.out.println("Base class value is : "+c);
        System.out.println("Base class value is : "+d);
        System.out.println("Base class value is : "+e);
    }
}

public class Main {
    public static void main(String[] args) {
        Derived d = new Derived(1, 2, 3, 4, 5);
    }
}
```