Java Concept 14

- In Inheritance if the Parent class contains only parameterized Constructor then it must be called inside Child class using super()

```
1   //No Error
2   class Parent
3   {
4       Parent(int a)
5       {...}
8   }
9   class Child extends Parent
10  {
11      Child()
12      {
13        super(10);
14      }
15  }
```

```
1   //Error
2   class Parent
3   {
4       Parent(int a)
5       {...}
8   }
9   class Child extends Parent
10  {
11      Child()
12      {
13
14      }
15  }
```

```
1   //Not Using super() inside child class to call
2   //parent class constructor // Error
3   class Parent
4   {
5     //Parameterized Constructor
6     Parent(String s){
7       System.out.println("Parameterized Parent "
8             + "Constructor : "+s);}
9   }
10  class Child extends Parent
11  {
12      Child(){//Non Parameterized Constructor
13          System.out.println("Inside Child class");
14      }
15  }
16  public class JavaConcept
17  {
18    public static void main(String args[])
19      {
20         new Child();
21      }
22  }
```

Error

```java
1   //Not Using super() inside child class to call
2   //parent class constructor //No Error
3   class Parent
4   {
5     //Parameterized Constructor
6     Parent(){
7       System.out.println("Non Parameterized Parent "
8               + "Constructor ");}
9
10    //Parameterized Constructor
11    Parent(String s){
12      System.out.println("Parameterized Parent "
13              + "Constructor : "+s);}
14 }
15 class Child extends Parent
16 {
17     Child(){//Non Parameterized Constructor
18         System.out.println("Inside Child class");
19     }
20 }
21 public class JavaConcept
22 {
23   public static void main(String args[])
24     {
25        new Child();
26     }
27 }
```

run:
Non Parameterized Parent Constructor
Inside Child class

```java
1   //Using super() inside child class to call
2   //parent class constructor // No Error
3   class Parent
4   {
5     //Parameterized Constructor
6     Parent(String s){
7       System.out.println("Inside Parent class : "+s);}
8   }
9   class Child extends Parent
10 {
11     Child(){//Non Parameterized Constructor
12         super("Called by Child");
13         System.out.println("Inside Child class");
14     }
15 }
16 public class JavaConcept
17 {
18   public static void main(String args[])
19     {
20        new Child();
21     }
22 }
```

run:
Inside Parent class : Called by Child
Inside Child class