

Java Concept 52

- Final class can not be inherited in java

```
1 //Inheriting non final class
2 //No Error
3 class Parent
4 {...}
7 class Child extends Parent
8 {...}
```

```
1 //Inheriting final class
2 //Error
3 final class Parent
4 {...}
7 class Child extends Parent
8 {...}
```

```
1 //shape class not made final // No Error
2 class shape
3 {
4     int length;
5     int width;
6     shape(int length,int width)
7     {
8
9         this.length = length;
10        this.width = width;
11    }
12 }
13 class rectangle extends shape
14 {
15     rectangle(int lenght,int width)
16     {
17         super(10,10);
18     }
19
20     void area(){System.out.println("Area : "+ length*width);}
21 }
22
23 class JavaConcept
24 {
25     public static void main(String[] args) throws InterruptedException
26     {
27         rectangle obj = new rectangle(3,5);
28         obj.area();
29     }
30 }
```

run:

Area : 100

```
1 //shape class made final // Error
2 final class shape
3 {
4     int length;
5     int width;
6     shape(int length,int width)
7     {
8
9         this.length = length;
10        this.width = width;
11    }
12 }
13 class rectangle extends shape
14 {
15     rectangle(int lenght,int width)
16     {
17         super(10,10);
18     }
19
20     void area(){System.out.println("Area : "+ length*width);}
21 }
22
23 class JavaConcept
24 {
25     public static void main(String[] args) throws InterruptedException
26     {
27         rectangle obj = new rectangle(3,5);
28         obj.area();
29     }
30 }
```

Error - java.lang.VerifyError: Cannot inherit from final class