

Java Concept 25

- If a method is **final** in **parent** class then it **can not** be **overridden** in **child** class
- But , If a method is **final** in **child** class then it **can** be **overridden** in **child** class

```
1 //Error
2 class sun
3 {
4     final void radius()
5     {...}
6 }
7
8 class earth extends sun
9 {
10    void radius()
11    {...}
12 }
13 }
```

```
1 //No Error
2 class sun
3 {
4     void radius()
5     {...}
6 }
7
8 class earth extends sun
9 {
10    final void radius()
11    {...}
12 }
13 }
```

```
1 //final method in Child Class // No Error
2 class Parent
3 {
4     void sum(int a , int b)
5     {
6         System.out.println("Parent "
7             + "Sum is : "+(a+b));
8     }
9 }
10 class Child extends Parent
11 {
12     //Overriding sum method
13     @Override
14     final void sum(int a , int b)
15     {
16         System.out.println("Child "
17             + "Sum is : "+(a+b));
18     }
19 }
20 public class JavaConcept
21 {
22     public static void main(String args[])
23     {
24         Child d = new Child();
25         d.sum(2,5);
26     }
27 }
```

run:
Child Sum is : 7

```
1 //final method in Parent Class // Error
2 class Parent
3 {
4     final void sum(int a , int b)
5     {
6         System.out.println("Parent "
7             + "Sum is : "+(a+b));
8     }
9 }
10 class Child extends Parent
11 {
12     //Overriding sum method
13     void sum(int a , int b)
14     {
15         System.out.println("Child "
16             + "Sum is : "+(a+b));
17     }
18 }
19 public class JavaConcept
20 {
21     public static void main(String args[])
22     {
23         Child d = new Child();
24         d.sum(2,6);
25     }
26 }
```

Error - class javaconcept.Child overrides final method sum.(II)V