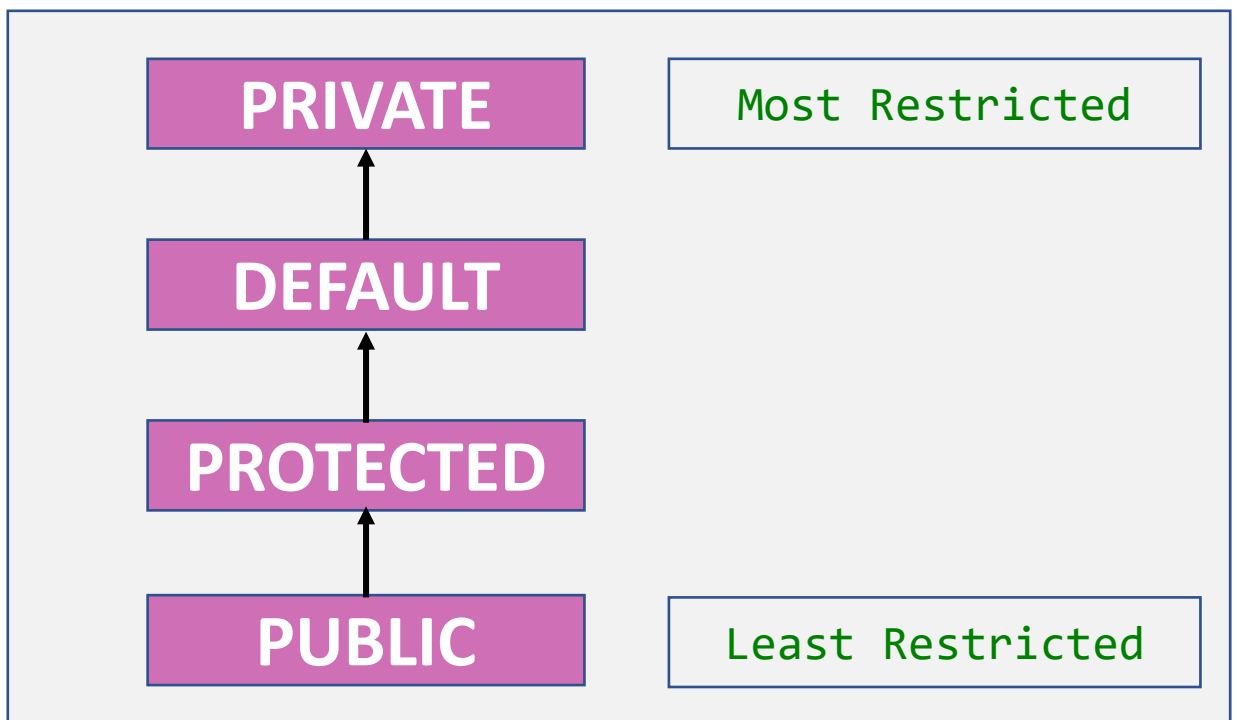


Java Concept 42

- Method with **default** keyword in **interface** is public **not** default
- Therefore , While **overriding** method in child class , method **access** modifier must be **public only**
- Because all the member of interface can be public only

```
1 //Public Overridden method
2 //No Error
3 interface Parent
4 {
5     default void show()
6         {...}
9 }
10 class Child implements Parent
11 {
12     public void show()
13         {...}
16 }
```

```
1 //Default Overridden method
2 //Error
3 interface Parent
4 {
5     default void show()
6         {...}
9 }
10 class Child implements Parent
11 {
12     void show()
13         {...}
16 }
```



```

1 //overriding method with public access type
2 //No Error
3 interface Java
4 {
5     int b = 10;
6     default void show()
7     {
8         System.out.println("Value of b : "+b);
9     }
10
11     default void hi()
12     {
13         System.out.println("Say hi ");
14     }
15 }
16 public class JavaConcept implements Java
17 {
18     public void hi()
19     {
20         System.out.println("Say hello public");
21     }
22
23     public static void main(String args[])
24     {
25         JavaConcept obj = new JavaConcept();
26         obj.show();
27         obj.hi();
28     }
29 }

```

run:
Value of b : 10
Say hello public

```

1 //overriding method with default access type
2 //Error
3 interface Java
4 {
5     int b = 10;
6     default void show()
7     {
8         System.out.println("Value of b : "+b);
9     }
10
11     default void hi()
12     {
13         System.out.println("Say hi ");
14     }
15 }
16 public class JavaConcept implements Java
17 {
18
19     void hi()
20     {
21         System.out.println("Say hello default ");
22     }
23     public static void main(String args[])
24     {
25         JavaConcept obj = new JavaConcept();
26         obj.show();
27         obj.hi();
28     }
29 }

```

Uncompilable source code - hi() in javaconcept.JavaConcept cannot implement hi() in javaconcept.Java attempting to assign weaker access privileges; was public

```

1 //overriding method with protected access type
2 //Error
3 interface Java
4 {
5     int b = 10;
6     default void show()
7     {
8         System.out.println("Value of b : "+b);
9     }
10
11     default void hi()
12     {
13         System.out.println("Say hi ");
14     }
15 }
16 public class JavaConcept implements Java
17 {
18     protected void hi()
19     {
20         System.out.println("Say hello protected");
21     }
22
23     public static void main(String args[])
24     {
25         JavaConcept obj = new JavaConcept();
26         obj.show();
27         obj.hi();
28     }
29 }

```

Uncompilable source code - hi() in javaconcept.JavaConcept cannot implement hi() in javaconcept.Java attempting to assign weaker access privileges; was public