

Assigning values to static final variables in Java

Assigning values to static final variables in Java:

In Java, non-static final variables can be assigned a value either in constructor or with the declaration. But, static final variables cannot be assigned value in constructor; they must be assigned a value with their declaration.

For example, following program works fine.

```
class Test {  
    final int i; // i could be assigned a value here also  
    Tets() {  
        i = 10;  
    }  
  
    //other stuff in the class  
}
```

If we make *i* as *static final* then we must assign value to *i* with the delcaration.

```
class Test {  
    static final int i = 10; // Since i is static final, it must be ass  
  
    //other stuff in the class  
}
```

Such behavior is obvious as static variables are shared among all the objects of a class; creating a new object would change the same static variable which is not allowed if the static variable is final.

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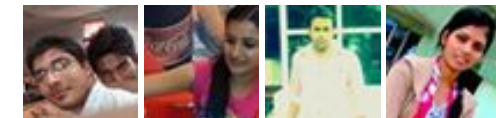
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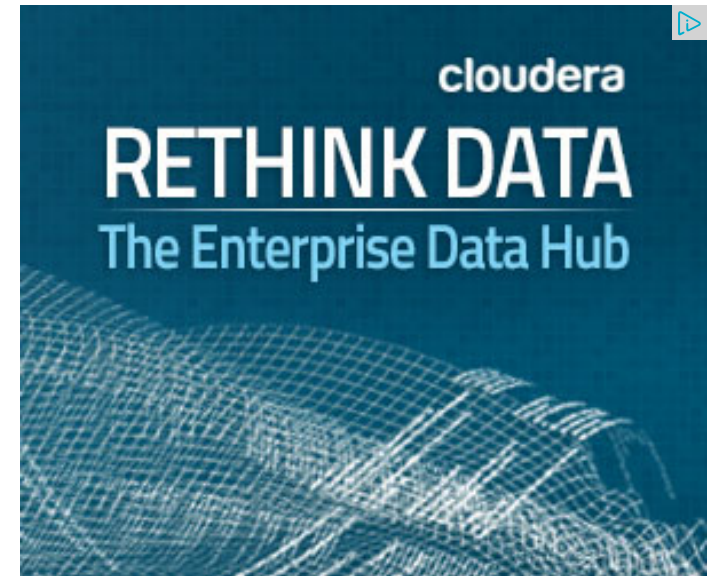
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```
class Test {
```

```
    static final int i;
```

```
    static{i = 10;}
```

```
    void display(){System.out.println(i);}
}
```

```
public static void main(String []str){
```

```
    Test t=new Test();
```

```
    t.display();
```

```
}
```

```
}
```

**** static variable can assign a value in static block which run before the main r**

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Or we can also assign value to the static final variable inside a static block

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