

JAVA INTERVIEW QUESTIONS

What is the difference
Final, Finally and
Finalize in Java?

#5

Code For Interview



Final Keyword:

Final is a reserved keyword in Java.

Different meanings for Variables, Methods and Classes

1 – Final with Variables:

When we declare any variable as final, we can't modify its content it will give Compile Time Error if we try to modify it.

```
final int a = 50;
```

Once the reference has been assigned then it cannot be changed

```
final int a;  
a = 50;
```

2 – Final with Methods

When we declare a method as final, then we can't override that method.

If a class is declared as final then by default all of the methods present in that class are automatically final but variables are not.

3 – Final with Class

Whenever we declare any class as final, it means that we can't extend that class.

Declaring a class as final will automatically declare all its methods final.

You can not declare a class as both “abstract” and “final”.

Finally Block:

The **finally** block is used to create a block of code written after a try/catch block.

A finally block of code always executes, whether or not an exception has occurred

```
try{  
    //statements may cause exception  
}catch(Exception e) {  
    //handling those exceptions  
}finally {  
    //will always execute  
}
```

Finalize Method:

Called by the Garbage Collector just before deleting the object.

It is used to perform clean up just before object is garbage collected. Clean-up means de-allocating the resources associated with that object like Database Connection, Network Connection.

Once the finalize method completes immediately Garbage Collector destroy that object.

```
protected void finalize()
```

QUESTION FOR YOU ALL

Will the following Code Compiles without Errors?

```
class Parent {  
    final static void display() {  
        System.out.println("Parent Display Method Called");  
    }  
}  
public class Child extends Parent {  
    void display() {  
        System.out.println("Child Display Method Called");  
    }  
    public static void main(String[] args){  
        Child c = new Child();  
        c.display();  
    }  
}
```

