JAVA INTERVIEW QUESTIONS

Does finally always Execute in Java?

#4

Code For Interview

What is finally block in Java?

The **finally** keyword 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
}
```

Regarding finally block:

1 - A finally block must be executed with a try block, you cannot use finally without a try block.
2 - Finally block is optional, but if you place a finally block then it will always run after try block.
3 – Finally block is executed even if try block contains statements like return, break, continue.

Cases when the finally block doesn't execute

1 – Using **System.exit(0);** method

2 - An infinite loop would prevent a finally being called.

3 - Turning off the machine

4 – JVM/System crashed.

5 – Runtime.getRuntime().exit(0);

6 - Runtime.getRuntime(). halt(0);

QUESTION FOR YOU ALL

```java
public class First {
    public static void main(String[] args) {
        try {
            return;
        } finally {
            System.out.println("Finally executed");
        }
    }
}
```

1 –   Finally executed

2 –   Compilation Error

3 –   The Program executes but there is no Output

4 –   An Exception is thrown at Runtime