

# Exception - What is output of

#### Q: What is output of

```
public class Test {
  public static void main(String[] args) {
     System.out.println(test());
  public static int test() {
     int k = 5:
     String name = "Vikay"; // Dinanath Chohan";
    try {
       System.out.println(name.charAt(6));
       System.out.println(name.length());
       int i = 15 / k;
       System.out.println(i);
    } catch (StringIndexOutOfBoundsException e) {
       System.out.println("-->" + e.getMessage());
       System.out.println("String abhi choti he");
       return 10:
    } catch (RuntimeException e) {
       System.out.println("Cought by Parent" + e.getMessage());
       return 15;
    } finally {
       System.out.println("This is Finally");
       return 20;
    // return 100;
```

## How do you handle exception in your Application?

#### Q: How do you handle/propagate exceptions in your Application?

A: We handle three types of exceptions in our application:

- 1. Database Exception thrown by DAO
- 2. Business Exception throws by Service classes
- 3. Input validation exception throws Controller classes
- (1) Database Exceptions are manly JDBC Exceptions thrown by DAO classes and handled by Service classes.

When Database Exception received by Service class then Service class rollbacks the transaction convert Exception into custom BusinessExceptionand propagate to Controller Class.

Action class receives Business Exception and sends Error Message to View to display it at Screen.

- (2) **Business Exception** is thrown by Service class and handled by Controlclass. For Example UserNotFound is thrown in case of invalid Login byLoginCtl class. Controller class receives Business Exception and sends Error Message to View to display it at Screen.
- (3) Input Validation Exception is managed by Spring MVC validation Framework.

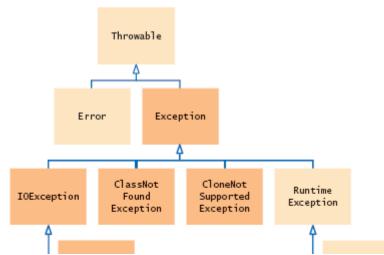
# try-catch inside finally

#### Q: Can you define try-catch block inside finally block?

A: Yes it can be. The finally block made for resource cleanup code that may close a file and database connection. Closing a connection may also raise an exception, in this case we write another try-catch block inside finally block.

### What is Exception hierarchy of Java

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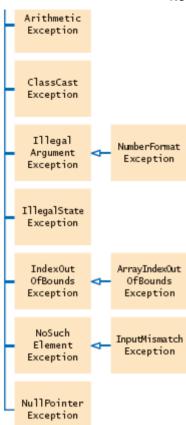


Figure 1 The Hierarchy of Exception Classes ??

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# Exception - try-catch-finally

#### Q: How you can stop finally block execution in try-catch?

```
A: Write System.exit(0)in catch block to exit the program;

try{
....
}catch ( Exception ex){
....
System.exit(0);
}finally {
/// will not execute
}
```

#### Q: Can you write return statement in finally block?

A: Yes, but you will get warning message at compile time.

Q: Can you pass integer value other then 0 to System.exit(n) method?

A: Yes, but ZERO indicate NORMAL termination of program.