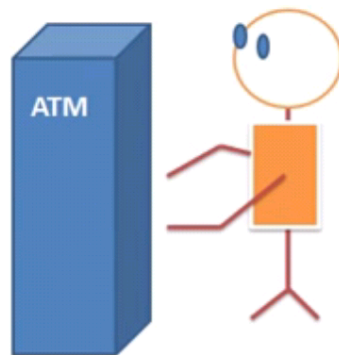


What is an Exception?

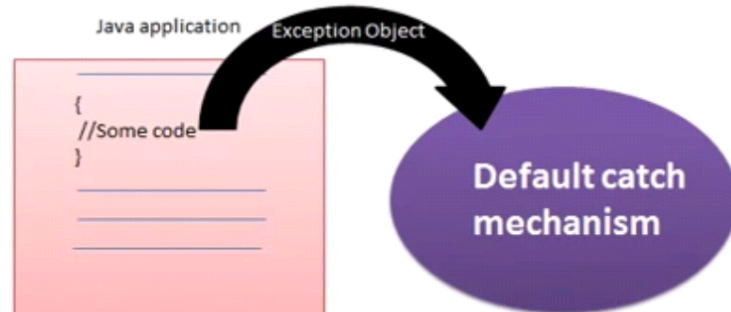
- ❑ **Exceptions in java** are any abnormal, unexpected events or extraordinary conditions that may occur at runtime



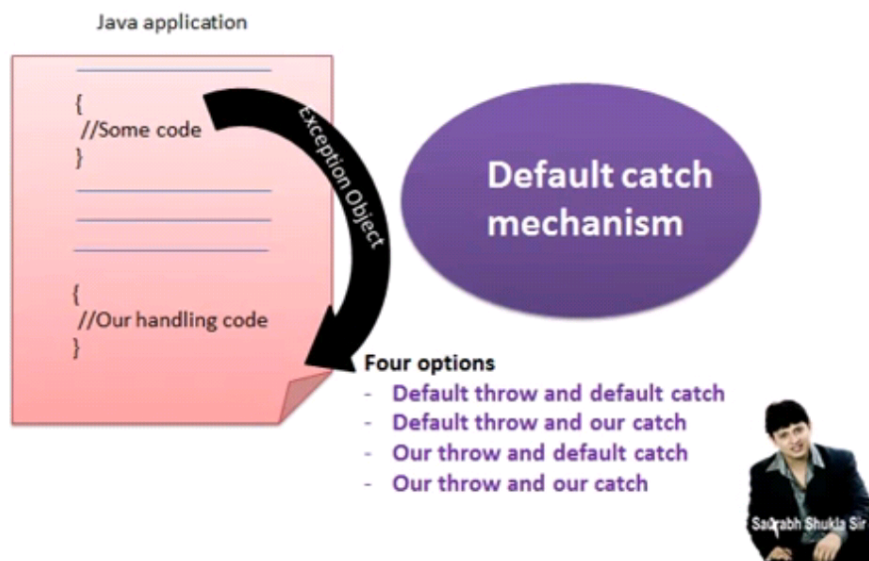
Example



So what is an exception?



So what is an exception?

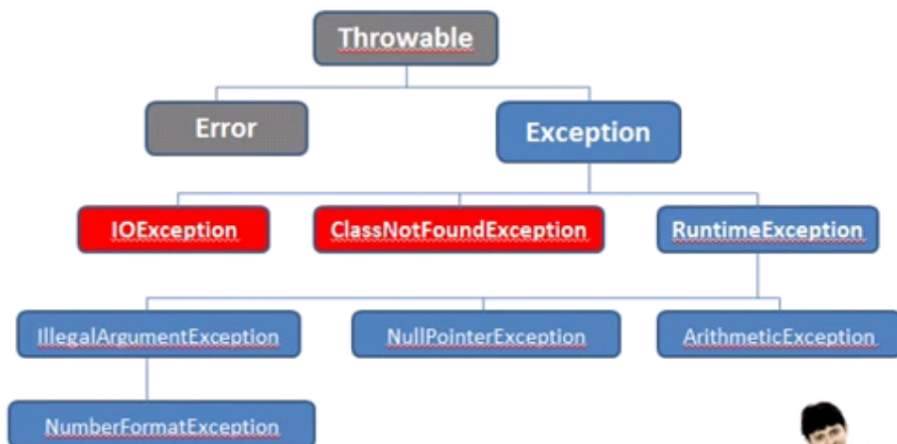


Exception Handling

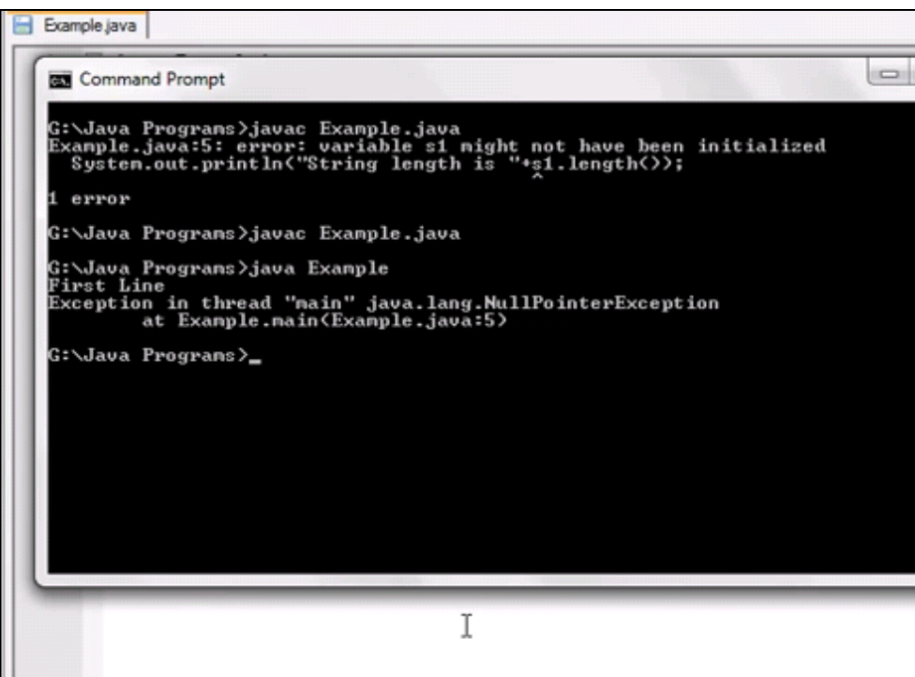
- ❑ Java exception handling is used to handle error conditions in a program systematically by taking the necessary action



Class Hierarchy



```
Example.java
1 class Example{
2     public static void main(String[] args){
3         String s1=null;
4         System.out.println("First Line");
5         System.out.println("String length is "+s1.length());
6         System.out.println("Last Line");
7     }
8 }
9
```



The screenshot shows a Windows Command Prompt window titled "Command Prompt" with a tab labeled "Example.java". The window displays the following text:

```
G:\Java Programs>javac Example.java
Example.java:5: error: variable s1 might not have been initialized
    System.out.println("String length is "+s1.length());
                                           ^
1 error

G:\Java Programs>javac Example.java

G:\Java Programs>java Example
First Line
Exception in thread "main" java.lang.NullPointerException
    at Example.main(Example.java:5)

G:\Java Programs>_
```

Below the Command Prompt window, there is a small cursor icon on a white background.

Throwable

- ❑ The Throwable class provides a String variable that can be set by the subclasses to provide a detail message that provides more information of the exception occurred
- ❑ All classes of Throwables define a one-parameter constructor that takes a string as the detail message
- ❑ The class Throwable provides getMessage() function to retrieve an exception

