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## Error & Exception Introduction in Java

## **=> What is difference between Error & Exception**

**:-**

Error	Exception
<p>-&gt; Galti</p> <p>-&gt; Error is the problem which will not allow us to compile and execute the program</p> <p>-&gt; Error is occurred due to lack of java concepts or lack of system resources</p> <p>-&gt; Types of Error :-</p> <ol style="list-style-type: none"><li>1. Compile Time Error</li><li>2. Runtime Error</li></ol>	<p>-&gt; Bhool</p> <p>-&gt; Exception is the problem which is occurred at runtime and which we can handle programmatically</p> <p>-&gt; Exception occurs due to our programs</p> <p>-&gt; Types of Exception :-</p> <ol style="list-style-type: none"><li>1. Predefined Exceptions</li><li>2. User-Defined Exceptions</li></ol>

## **=> Types of Errors :-**

### **➔ Compile Time Error**

- Lexical Error (if we have any mistake in java keywords for example static - statc, void - viod)
- Syntax Error (if we have any mistake in java predefined syntax for example variable declaration, method declaration, method calling etc)

- Semantic Error (it is the meaning-less statement)
- Etc

➔ Runtime Error

1. Runtime errors cannot be handled programmatically

2. Runtime errors occurs because of JVM (memory error)

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**=> Exception :-**

➔ Exception is any unwanted event which disturb the normal flow of the program

➔ Types of Exceptions :-

= Predefined Exceptions

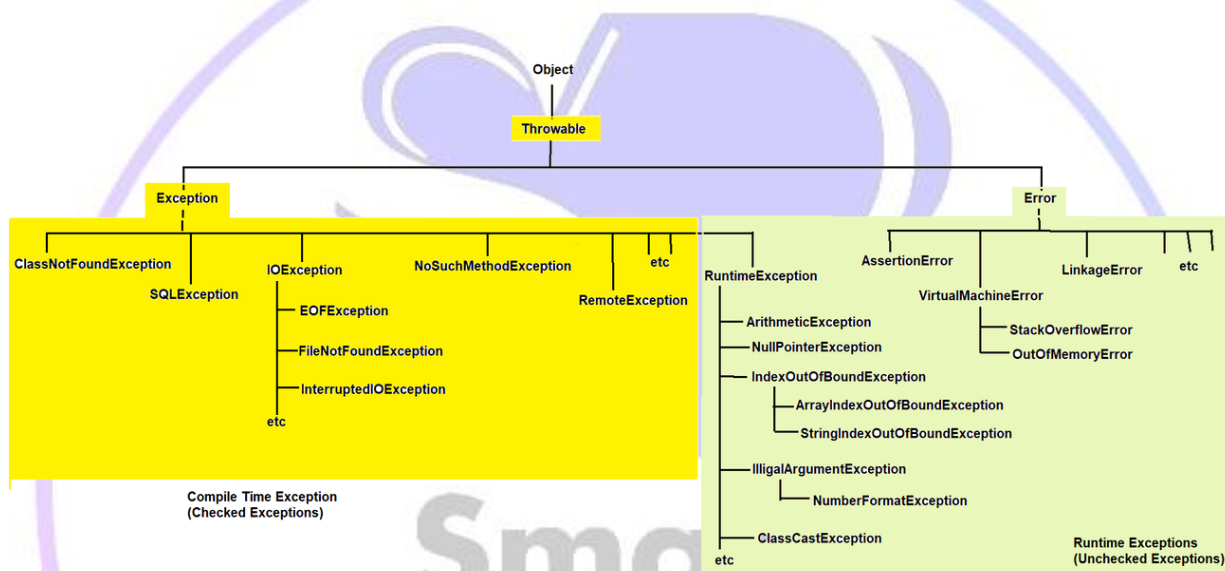
= User-Defined Exceptions

(above both can be of 2 types -  
Checked Exceptions & Unchecked Exceptions)

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## => Hierarchy of Error & Exception class :-



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