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CHAPTER NO 8
Exception Handling

Q: What is an exception?

An exception is an unwanted or unexpected event, which occurs during the execution of a program i.e at run time, that disrupts the normal flow of the program's instructions.

Q: What is error?

An Error indicates serious problem that a reasonable application should not try to catch.
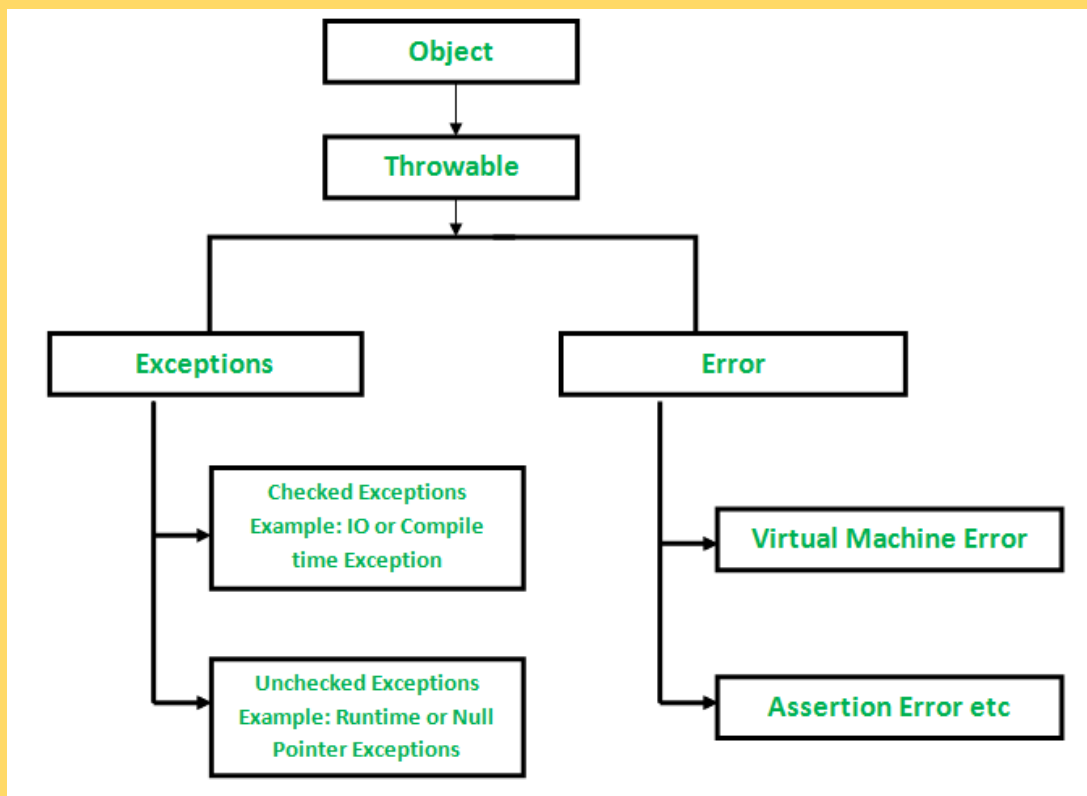
OR

Errors are typically unrecoverable and present serious conditions.

Q: Differentiate between exception and error?

Exception	Error
An exception is an unwanted or unexpected event, which occurs during the execution of a program i.e at run time, that disrupts the normal flow of the program's instructions.	Errors are typically unrecoverable and present serious conditions. Errors are not checked at compile time and do not have to be caught.

Q: Define exception hierarchy?

All exception and errors types are sub classes of class Throwable, which is base class of hierarchy. One branch is headed by Exception. This class is used for exceptional conditions that user programs should catch. NullPointerException is an example of such an exception. Another branch, Error are used by the Java run-time system (JVM) to indicate errors having to do with the run-time environment itself (JRE). StackOverflowError is an example of such an error.

Q: Define checked exception?

- ➢ Checked exceptions are checked by the computer at compile time.
- ➢ Methods that throw a checked exception must indicate so in the method declaration using throw clause, checked exception includes exceptions of the type exception and all classes that are subtypes of exception except for the runtime exception and the subtypes of runtime.

Q: Define unchecked exception?

- ➢ The compiler does not check unchecked exception at compile time.
- ➢ Unchecked exceptions occur during runtime due to programmer error or system resource exhausation.
- ➢ Unchecked exceptions so not have to be caught.
- ➢ Methods that may throw an unchecked exception do not have to indicate this in the method declaration.

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