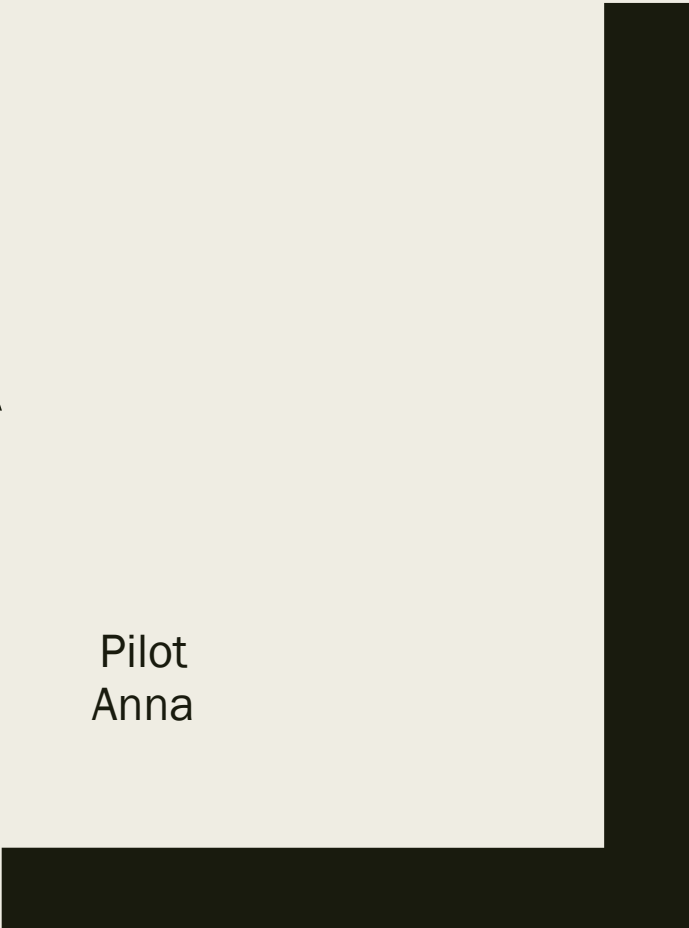




CORE JAVA

Pilot
Anna



Build a String

- String1 + String2
- String builder
- String Buffer

What's the difference?

- StringBuffer is thread-safe and synchronized whereas StringBuilder is not.
- StringBuilder is faster than StringBuffer.
- String concatenation operator (+) internally uses StringBuffer or StringBuilder class.

Abstract class vs class

- has the **abstract** keyword in its declaration
- Abstract classes should have **at least one** abstract method. , i.e., methods without a body. It can have multiple concrete methods.
- Abstract classes allow you to create blueprints for concrete classes. But the inheriting class should implement the abstract method.
- Abstract classes cannot be instantiated.
- Example: Electronic Device

Interface

- Interface contains only abstract methods.
- cannot have non-abstract methods(no body)
- **implement**

give an example for interface

Exception

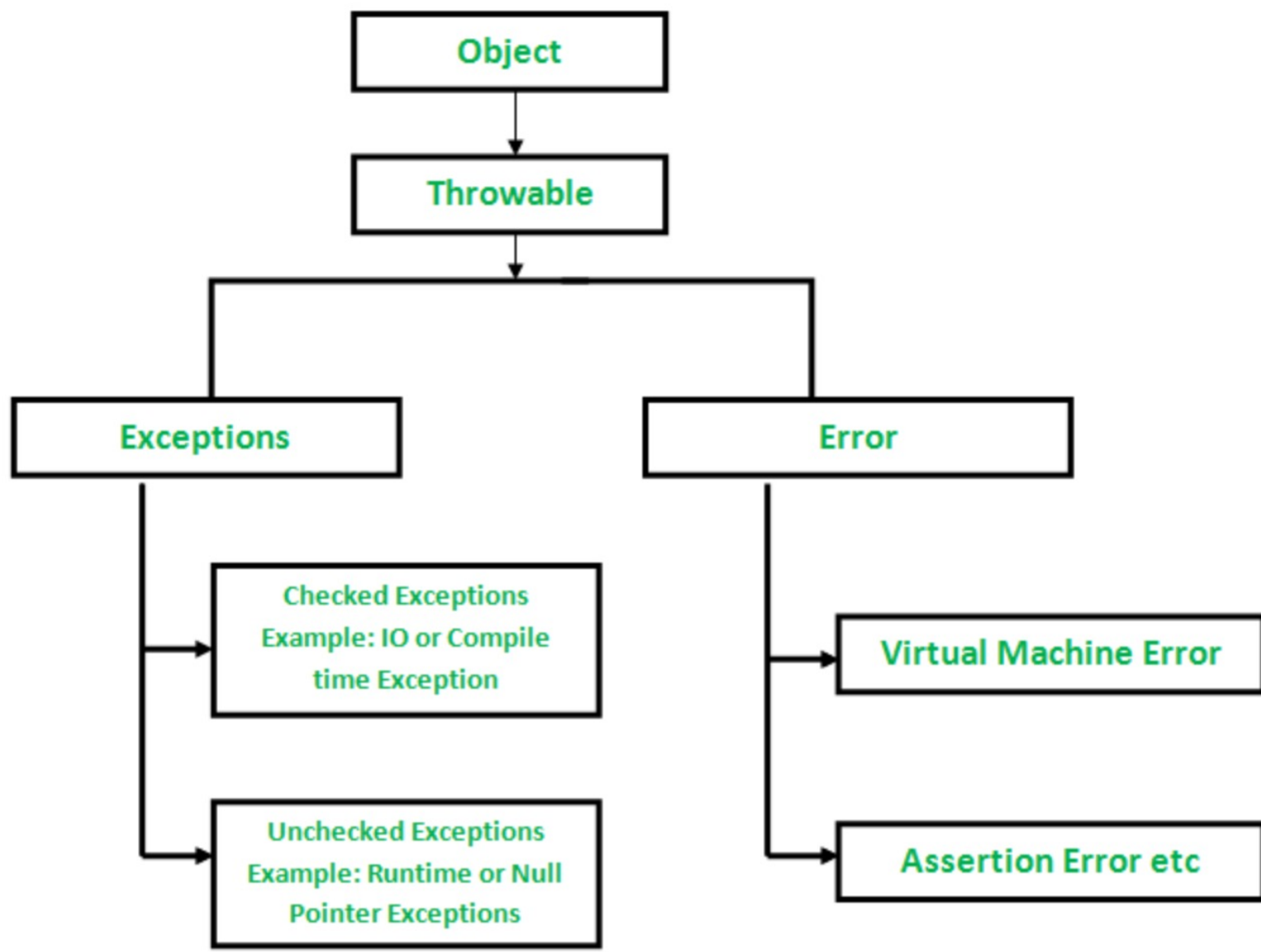
- What is exception

an unexpected event that occurs while executing the program, that disturbs the normal flow of the code.

- Why we need that

it helps maintain the normal, desired flow of the program even when unexpected events occur.

- try and catch blocks
- finally – will execute anyway
- What is Throwable - is the superclass of all errors and exceptions in the Java language



Recursion

Recursion is the technique of making a function call itself.

This technique provides a way to break complicated problems down into simple problems which are easier to solve.

Two step:

- Specify the baseline condition - stack overflow for infinite loop
- Pass it into the next round

Homework 2 (Recursion)

Check Homework 1