Java & OOP

8. Stateless Vs Stateful

What are they?

- Stateless

  - no properties

  - Instance or static methods

  - Methods depend on only parameters

  - Every invocation of a method will yield same result

  - Thread safe

What are they?

- Stateful

  - with properties to maintain state

  - Instance methods to control state

  - Methods may depend on the state

  - Every time method invoked may give a different result as state is involved

Stateless Calculator

- Methods with 2 operands

  - `add`

  - `subtract`

  - `multiply`

  - `divide`

- executes the methods and yields the result

- Let us code...

Stateful Calculator

- Same methods with one operand

- Other operand is accumulator value

- accumulator is maintained in state

- clear or set state

- Initialize accumuator to set the state

- Let us code...

Flutter

- Components are either StatefulWidget or StatelessWidget

- Stateless - Static UI

- Stateful - Dynaimc UI and is a function of state and will change on state change

- Dart Language is similar to Java and half of the code written will be constructor calls

- You can give a try...

Next

Inheritance