Estate Design Pattorn

The **State Pattern** is a behavioral design pattern that allows an object to change its behavior when its internal state changes. It encapsulates state-specific behavior into separate classes, making it easy to add or modify states without affecting other parts of the system.

Key Concepts:

Context:

- The main object whose behavior changes based on its state.
- · Maintains a reference to a State object.

2. State Interface:

- Defines a common interface for all concrete states.
- The context delegates state-specific behavior to the current state object.

3. Concrete States:

- Implement the state-specific behavior.
- These are the different states the Context can transition between.