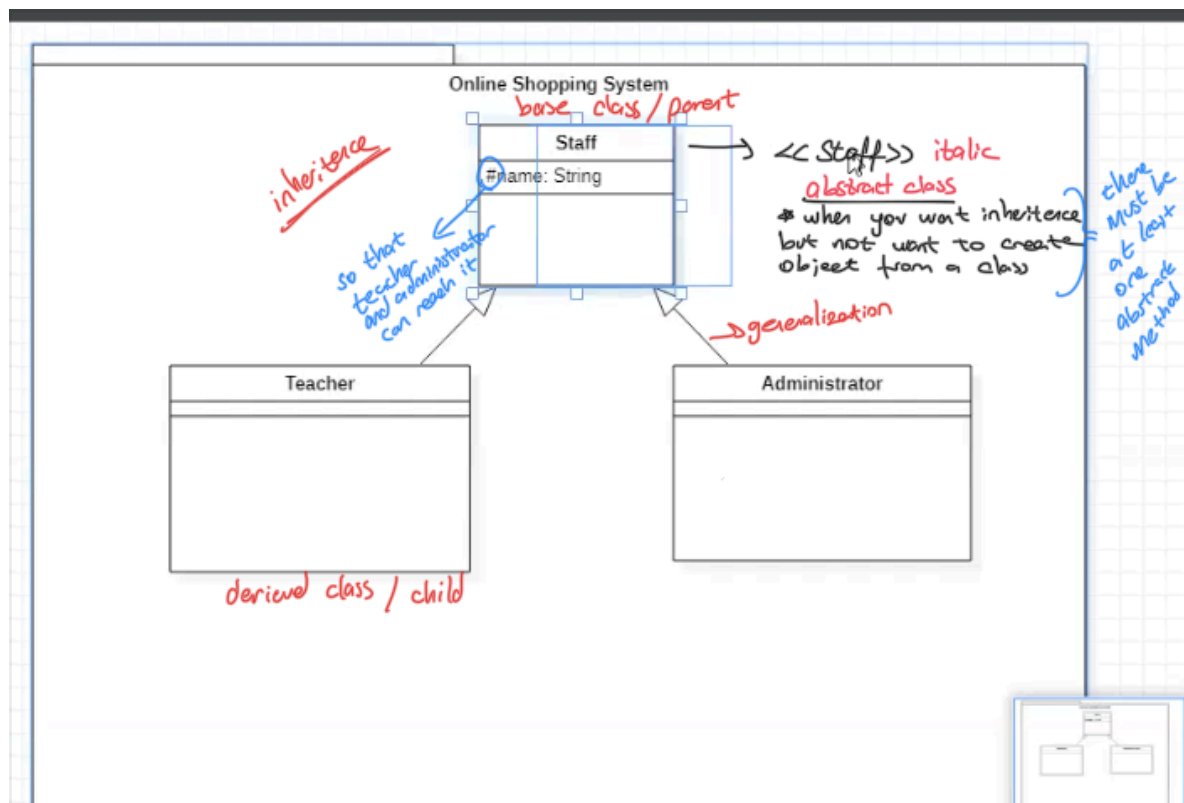
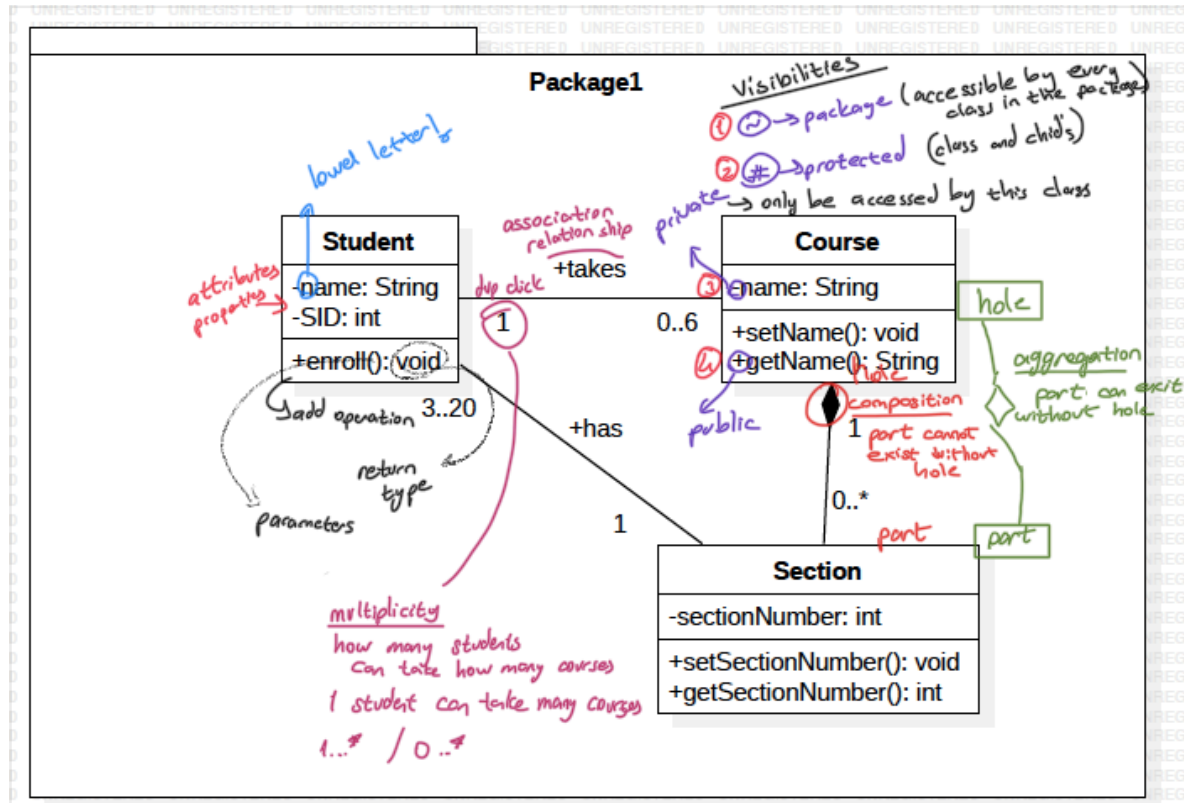


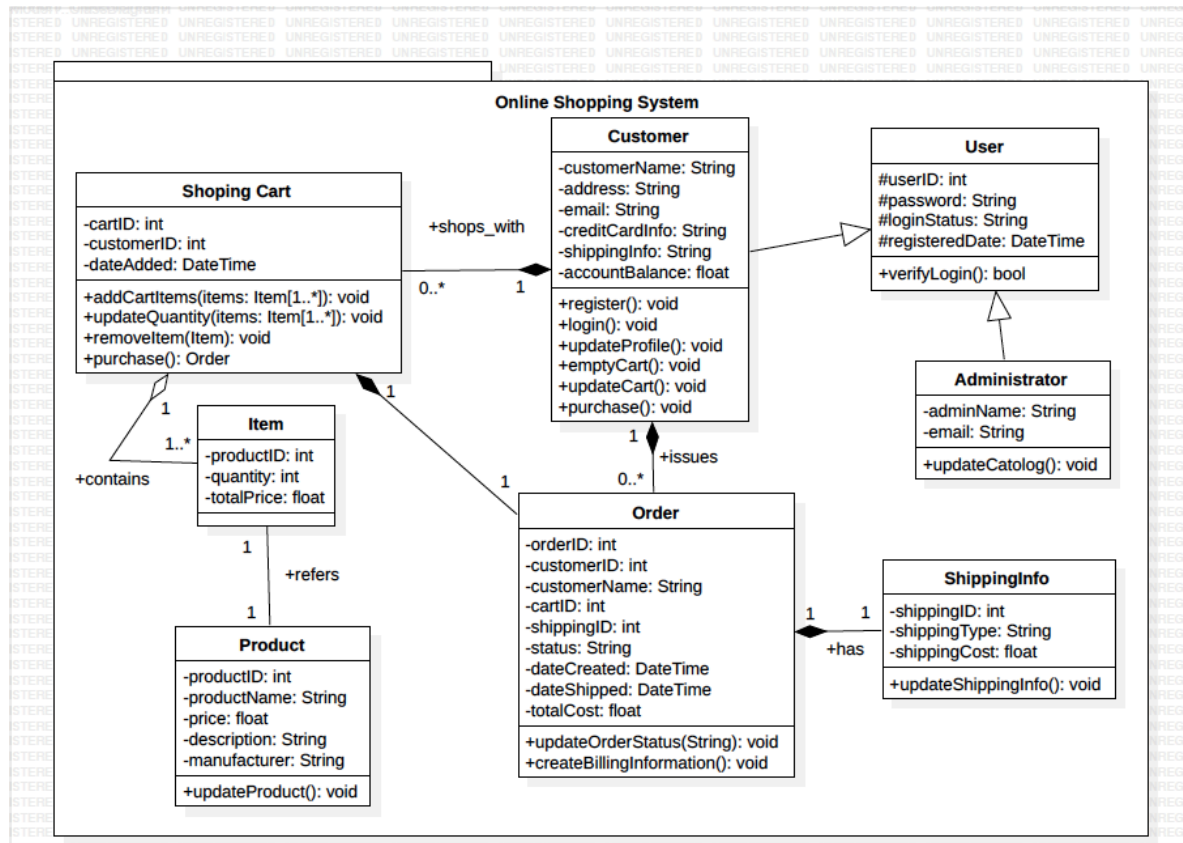
recit -3

class diagram and state diagram

class diagram:

- structural diagram
- attributes & operations of classes



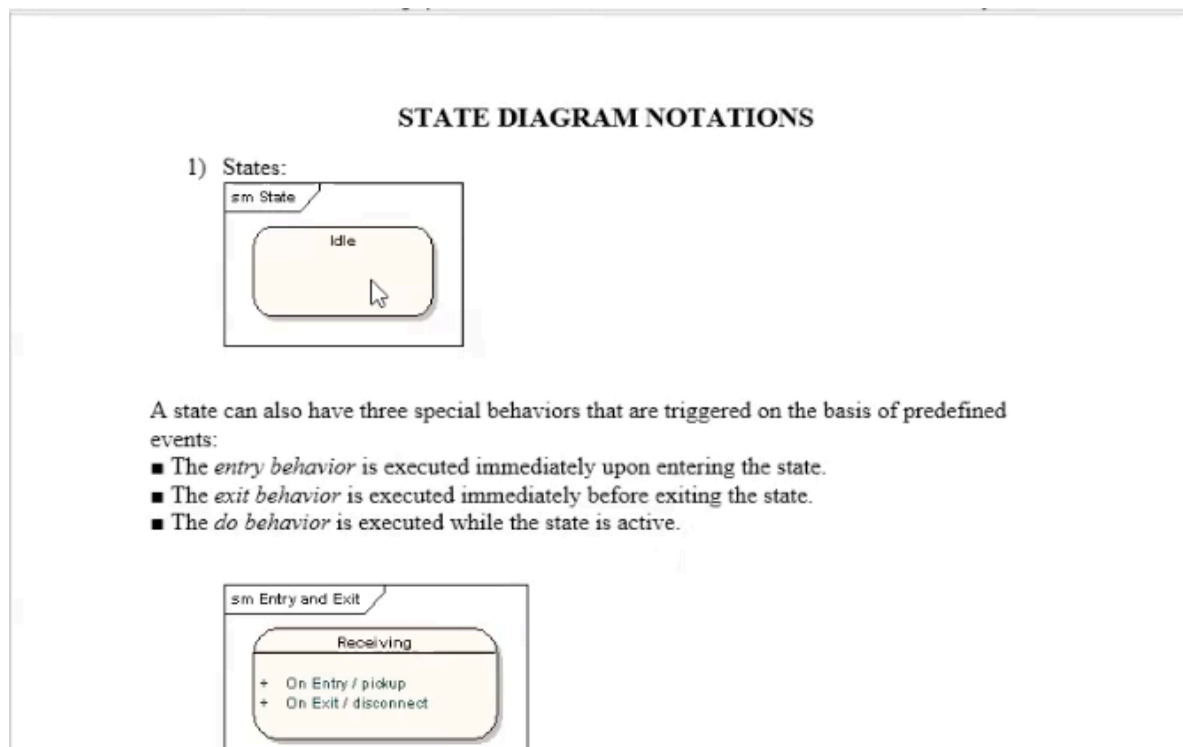


state diagram:

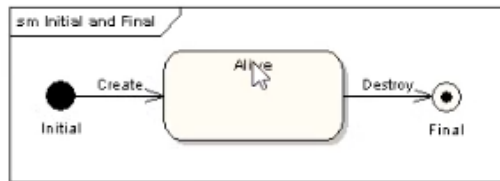
-can be created for all or part of the system

-behavioral

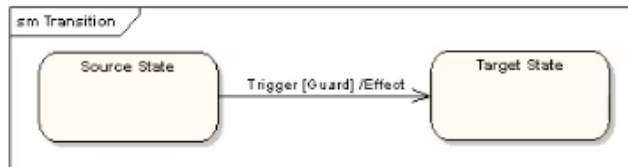
states+state transitions + trigger(what causes the transition)



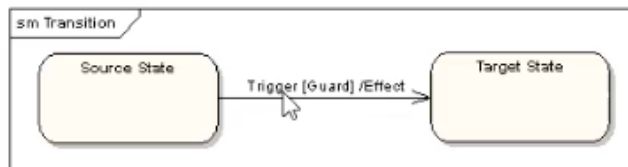
2) Initial and Final States



3) Transitions

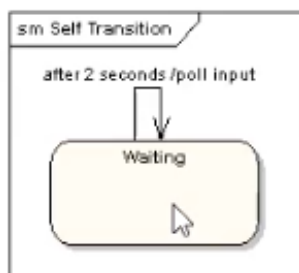


3) Transitions

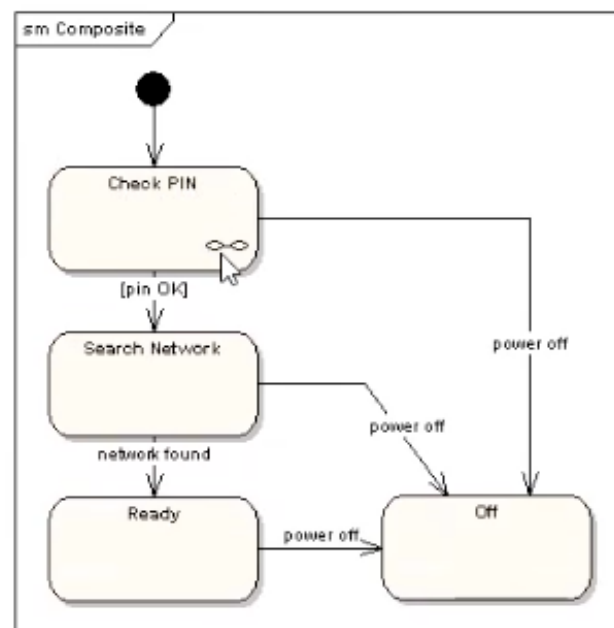
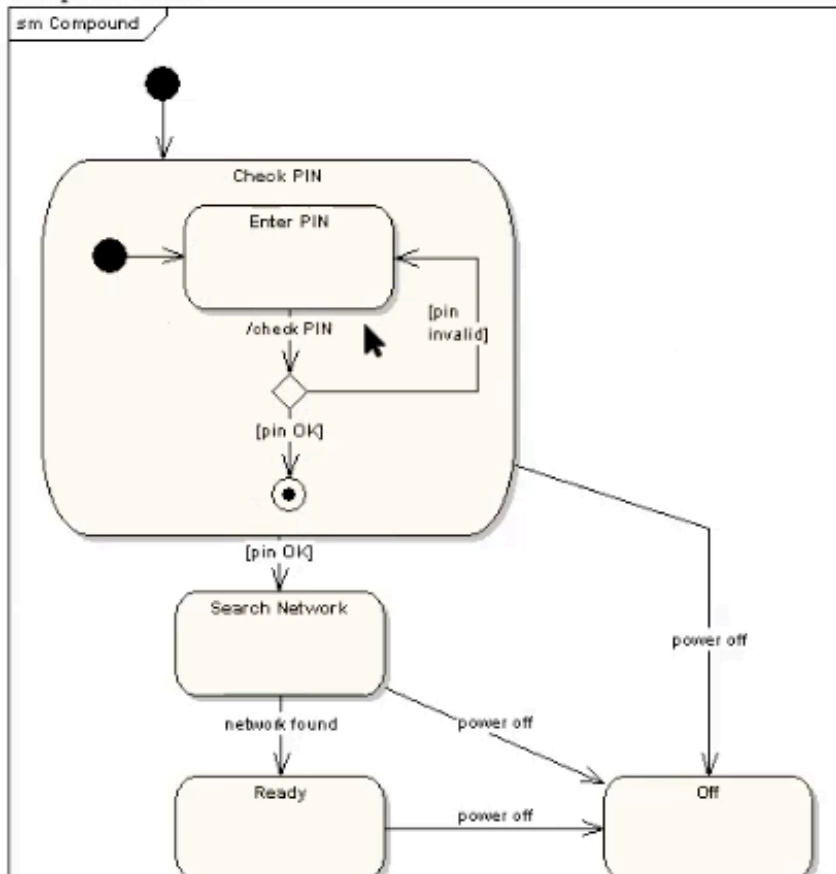


"Trigger" is the cause of the transition, which could be a signal, an event, a change in some condition, or the passage of time. "Guard" is a condition which must be true in order for the trigger to cause the transition. "Effect" is an action which will be invoked directly on the object that owns the state machine as a result of the transition.

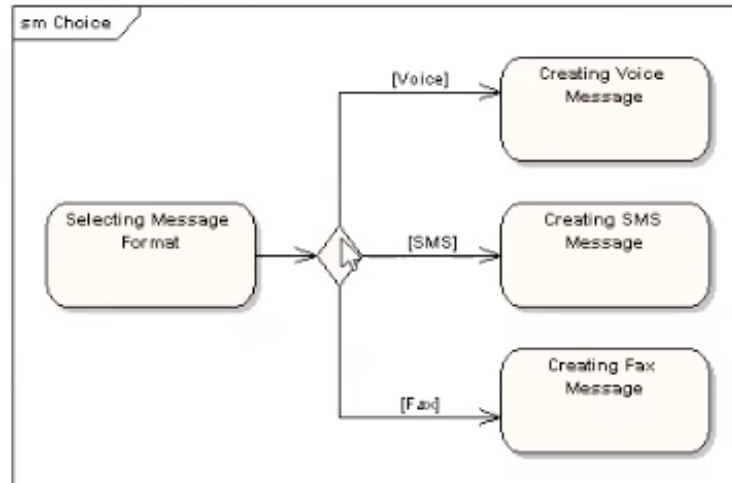
4) Self Transitions



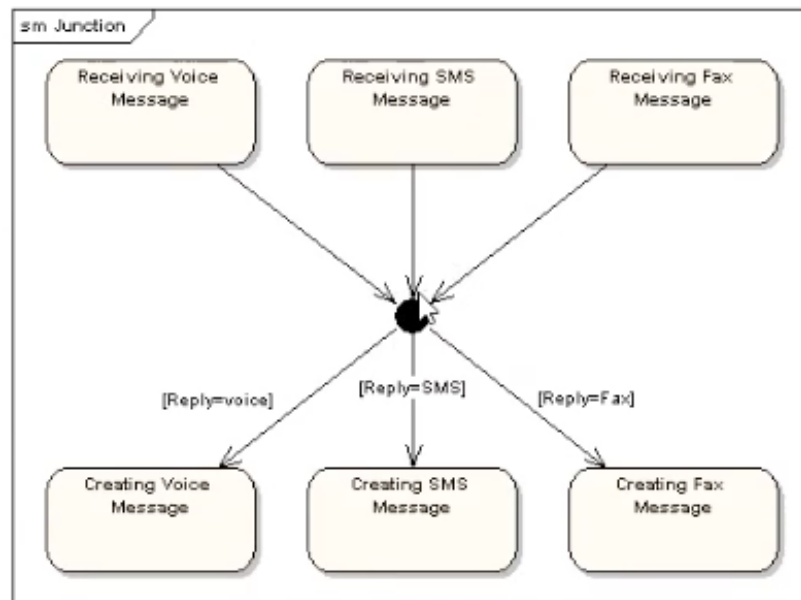
5) Compound States



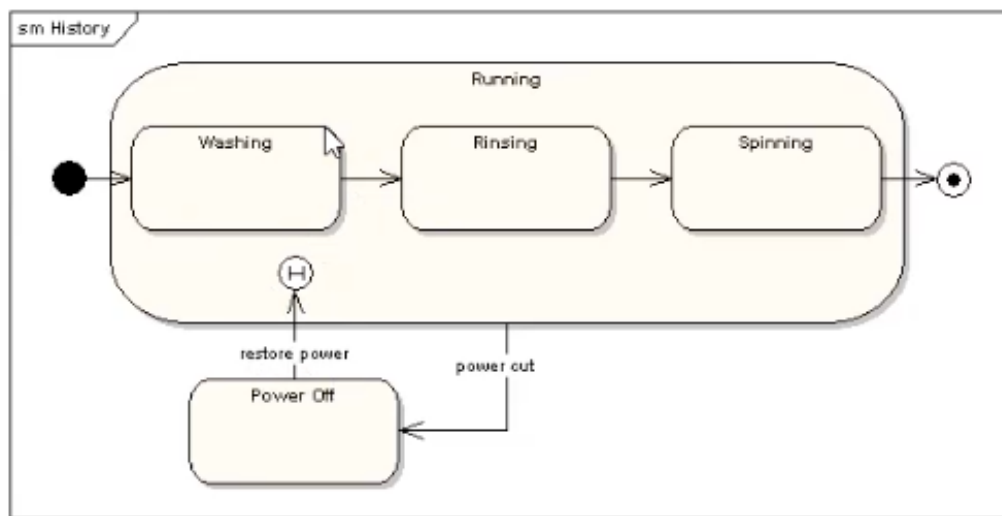
6) Choice Pseudo States



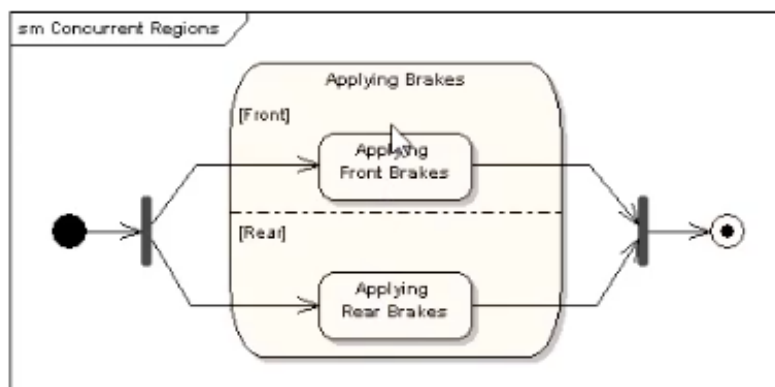
7) Junction Pseudo States



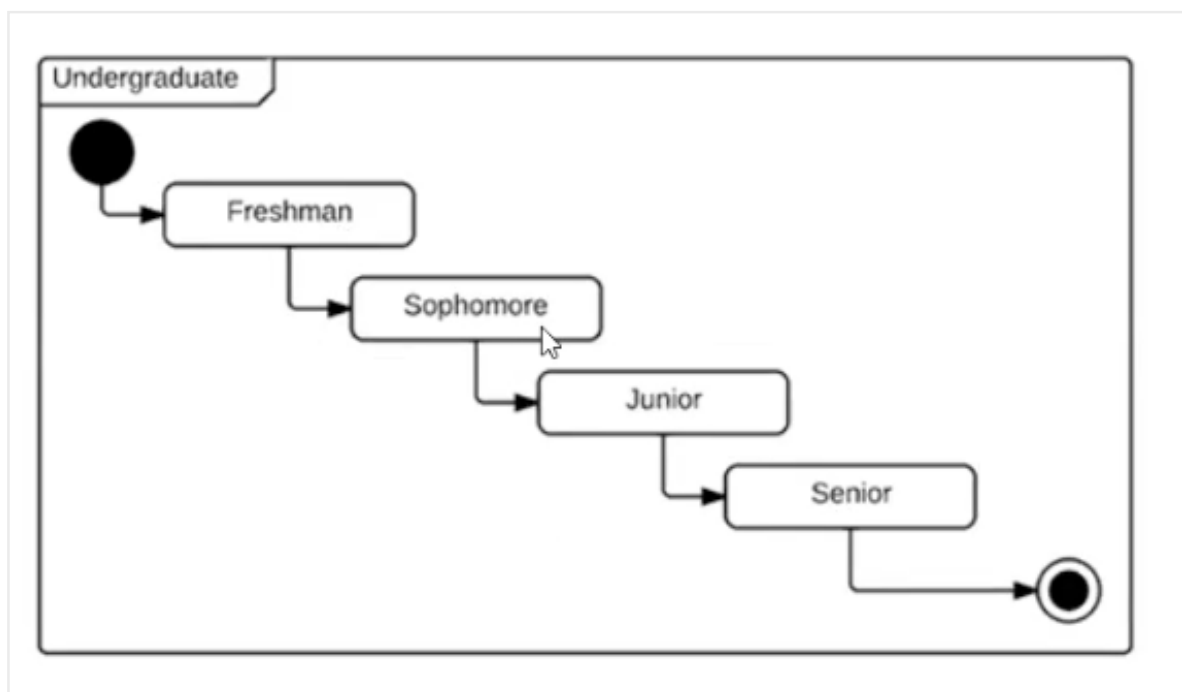
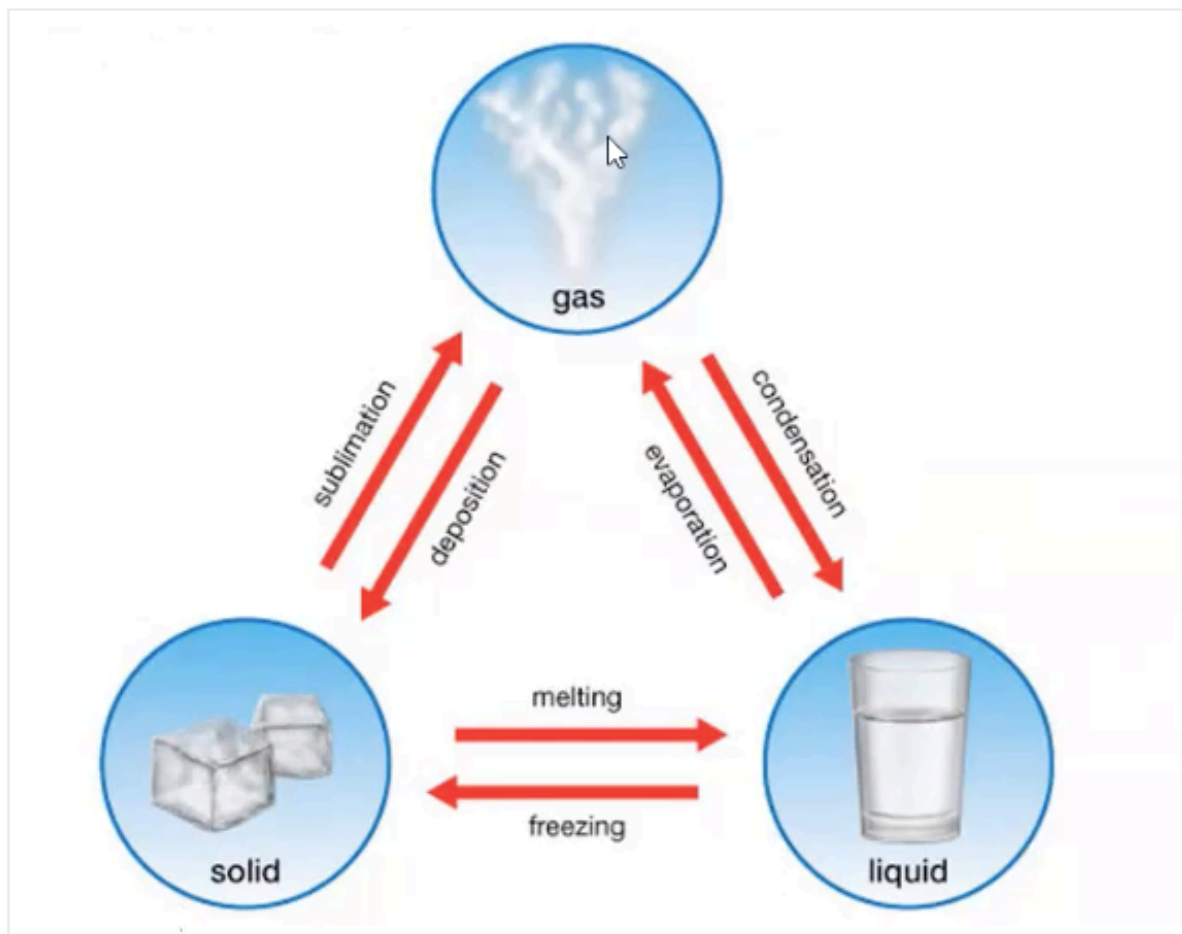
8) History States

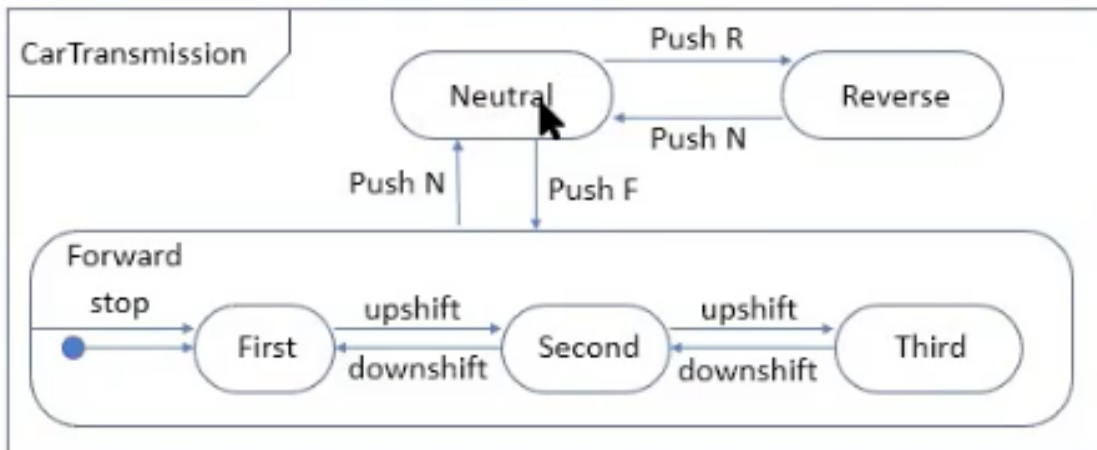


9) Concurrent Regions



examples:





Nested State Diagram of Car Transmission

