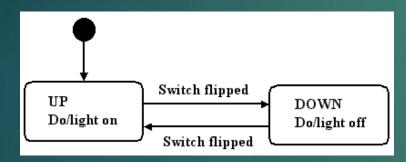
LAB 4

STATE DIAGRAMS LAKSHYA TANDON

What is a state diagram?

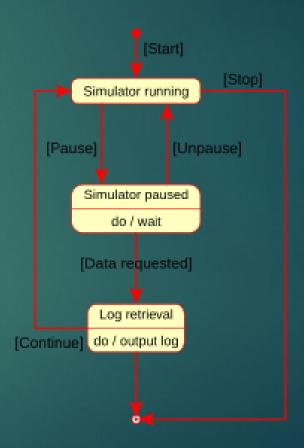
- A diagram used in computer science to describe the behaviour of systems.
- Has a finite number of states and transitions between them.
- States represents all the possible states that a system can be in.



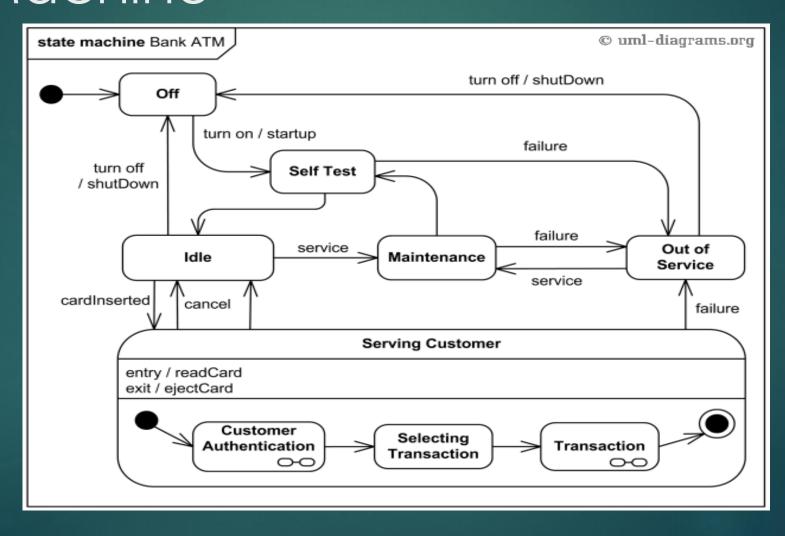
In UML 2 this is called as a state machine diagram.

Notations in a State machine diagram

- Filled circle, representing to the initial state
- Hollow circle containing a smaller filled circle, indicating the final state (if any)
- Rounded rectangle, denoting a state. Top of the rectangle contains a name of the state. Can contain a horizontal line in the middle, below which the activities that are done in that state are indicated
- Arrow, denoting transition. The name of the event (if any) causing this transition labels the arrow body.



State Machine Diagram Example – ATM Machine



You can continue with Lab exercise 4