# State Diagram

Definition:

A State Diagram is a type of diagram used to describe the behavior of a system. A state diagram is used to show : the original state, transition, transition condition and the new state.

For Example:

A door that is open needs to be closed

Original state : Opened Door

Transition : going to close the door

Transition condition : (if door is open close\_door() )

New state : Closed Door

Open Door => Close\_Door() => Closed Door