

Home Credits Feedback Advanced Network Technologies Virtual Lab Virtual Lab

# Statechart and Activity Modeling



### Draw a statechart diagram to graphically represent the following system

Consider a bulb with a push down switch. The bulb initially remains off. When the switch is pushed down, the bulb is on. Again when the switch is pushed up, the bulb turns off. The lifecycle of the bulb continues in this way until it gets damaged.

#### Think about these points:

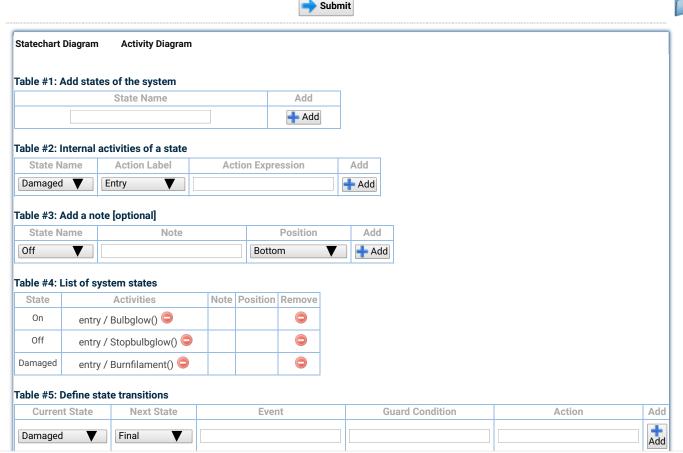
- · What are the different states of the bulb?
- What activities are performed in each state?
- What action does make the bulb move from one state to another?

#### **Learning Objectives:**

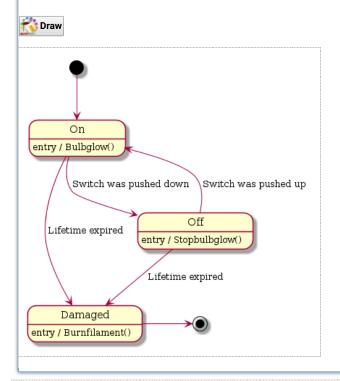
- 1. Identifying different states of a system
- 2. Identifying activities performed in each state

Limitations: A complex system often has sub-states, which is not covered as a part of this lab. The following interface only let you represent simple states. Please check out the references section to know more about them.





Current State	Event	Guard Condition	Action	Next State	Remove
Initial				On	
Off	Switch was pushed up			On	
On	Switch was pushed down			Off	
On	Lifetime expired			Damaged	
Off	Lifetime expired			Damaged	
Damaged				Final	







## Result

View Solution



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