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| seecs-nust |
| Assignment # 3 |
| Formal Methods-BESE(5B) |
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| Submitted by: Maimoona Khalid (33422|111677) |
| 5/28/2017 |

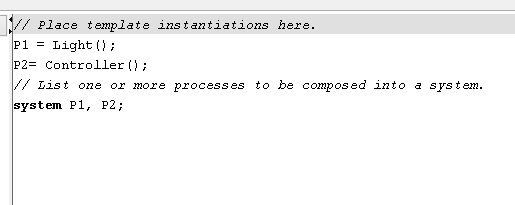
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| Assignment 3- Formal Methods |

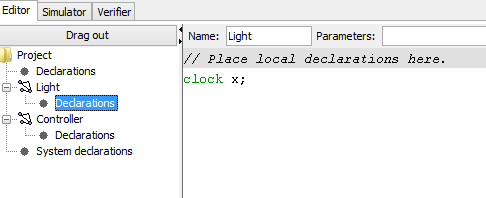
Part a: Prepare and enhance the light controller model.

Explanation:

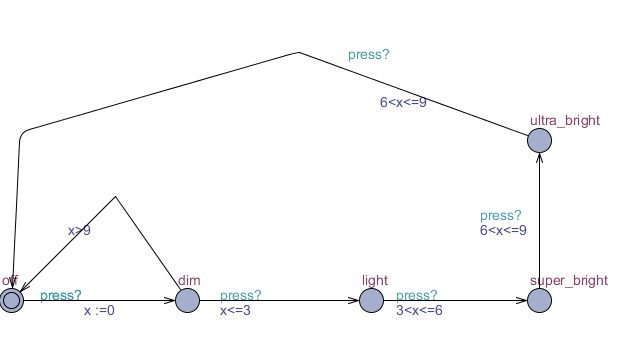
The levels of light keep on changing with each pressing of button.

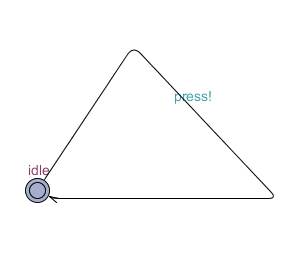
Code:





Images of Model:



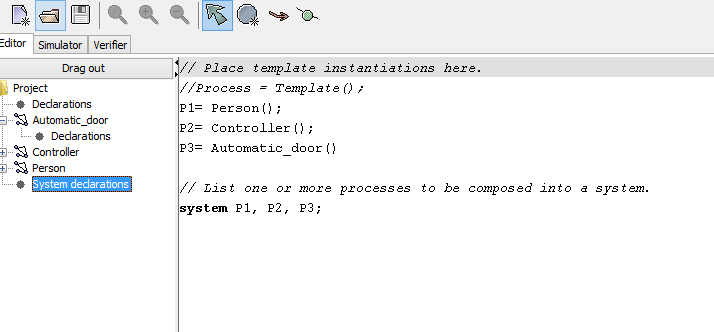


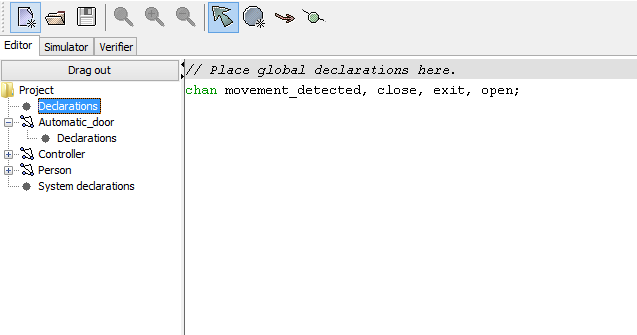
Part b: Construct a model of your own.

Explanation:

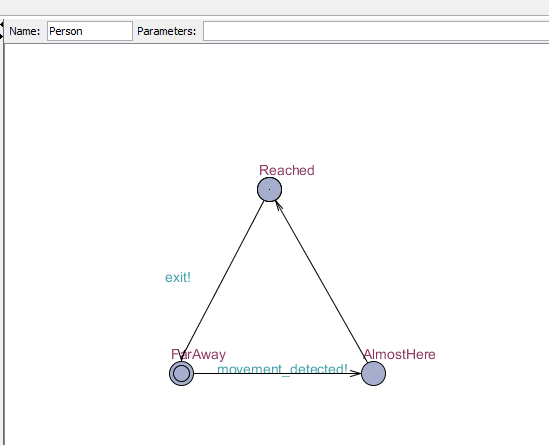
In this example, we simulate the automatic door opening system. As soon as a movement is detected the door opens up. As soon the person enters through the door, it prepares to get closed.

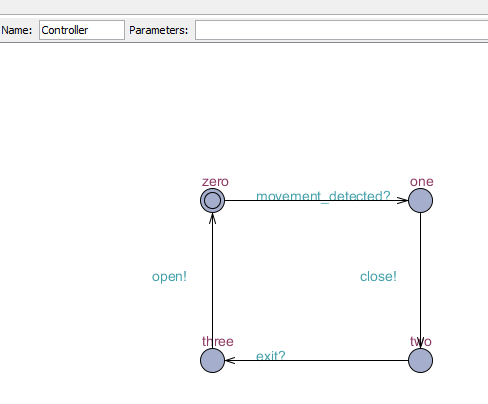
Code:

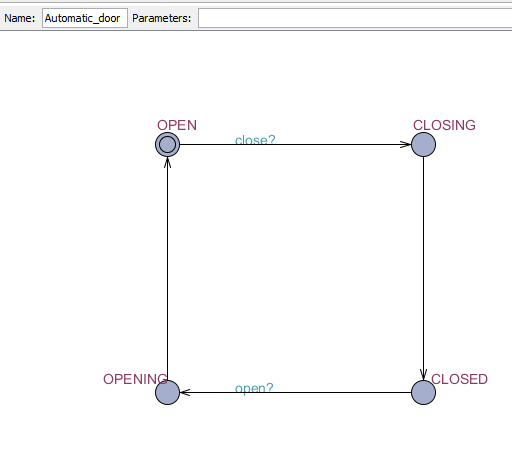




Images of Model:







Explanation:

https://github.com/maimoona96/FM\_Assignment