

RBE 500
HW 8
Prathamesh Mehta

Below is my result for my implementation of bayes theorem in MATLAB.

```
New to MATLAB? See resources for Getting Started.  
  
Iteration 1  
The belief when door is open is 0.33333  
The belief when door is closed is 0.66667  
  
Iteration 2  
The belief when door is open is 0.76471  
The belief when door is closed is 0.23529  
  
Iteration 3  
The belief when door is open is 0.61905  
The belief when door is closed is 0.38095  
  
Iteration 4  
The belief when door is open is 0.97324  
The belief when door is closed is 0.026756  
  
Iteration 5  
The belief when door is open is 0.99092  
The belief when door is closed is 0.0090806  
  
fx >>
```