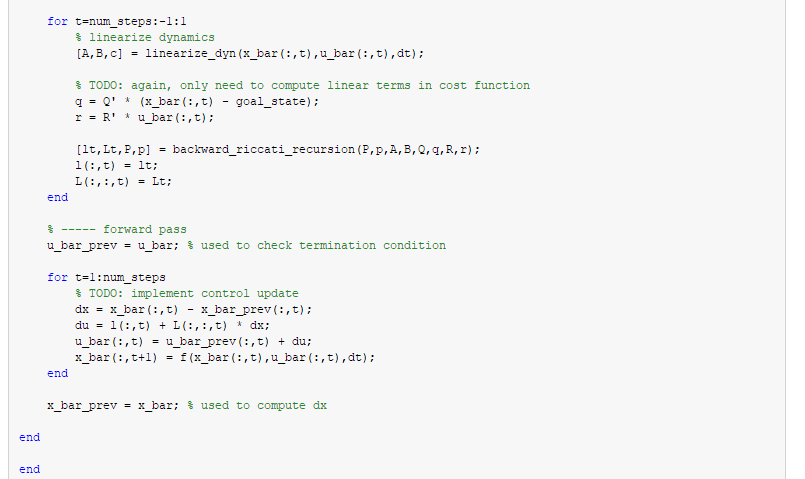
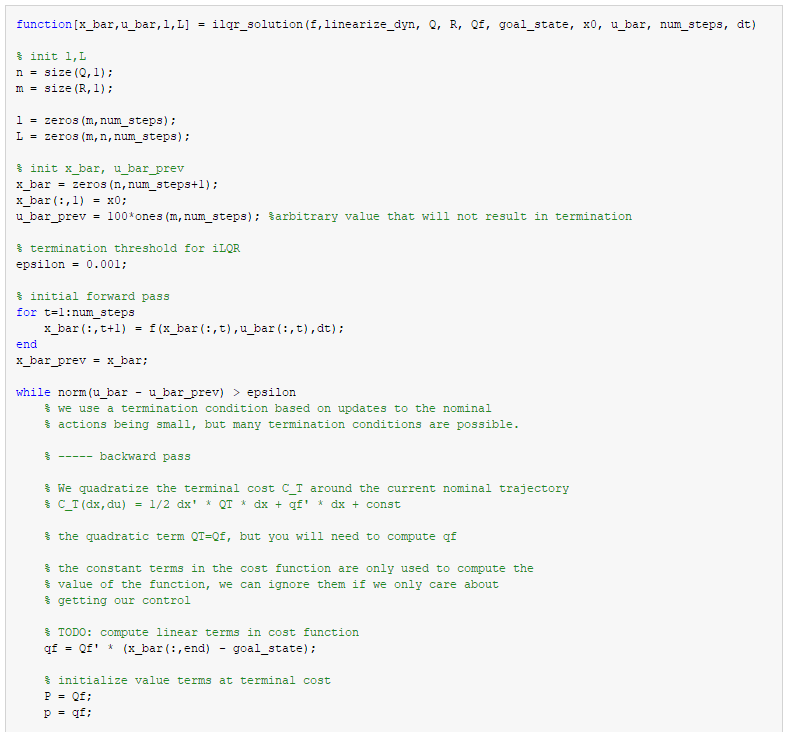
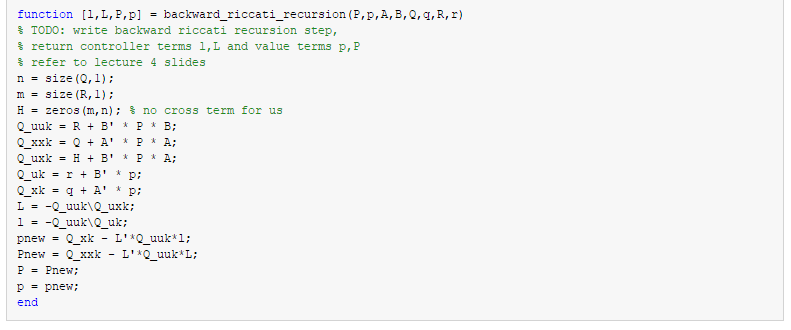
Question 5

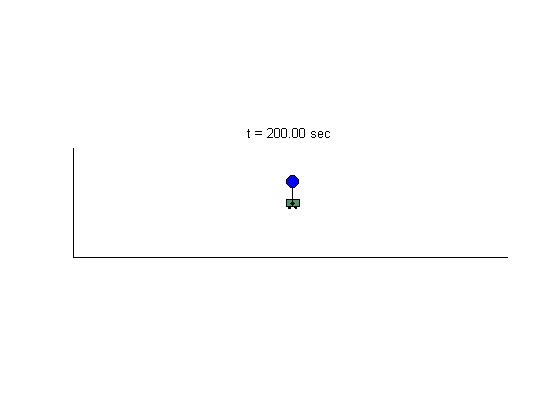
**Code**



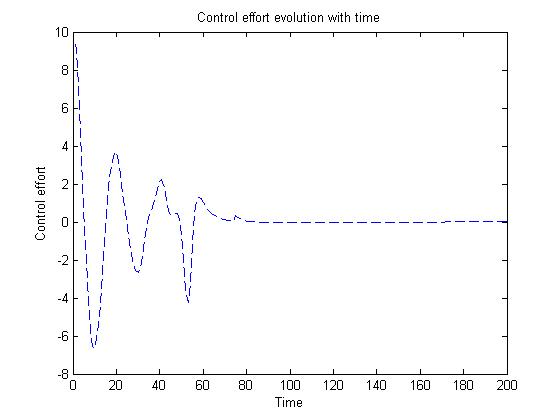
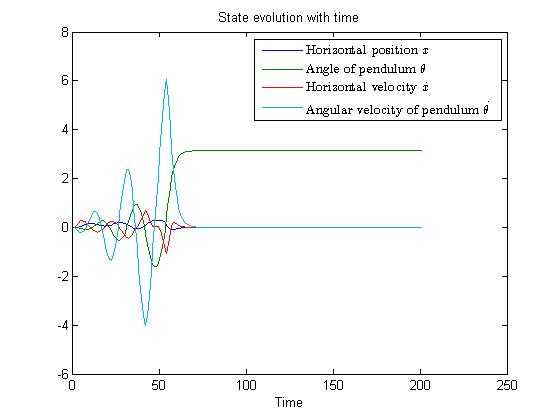


**Plots**

All the simulations end at this point in the animation



**Without Noise**



**With Noise**

