Right now, I’m trying to calculate the PMF for X at time 1, given Y at time 1, and using my given pi matrix for my prior.

I am having trouble with the code and generating a PMF for X. right now my code only generates a single value and it doesn’t make sense.

So I think my issues are:

1. How do I multiply matrices
2. What is the proper code to use here?
3. Why is the math coming out weird?