## Exercise 4 Thompson Beta

## Exercise 2.4: Thompson Beta

In this exercise, you will implement the Thompson Beta algorithm.

Make sure that you have:

1. Completed the setup requirements as described in the Set Up Lab Environments section
2. Completed the previous exercises in this lab

Now, run jupyter notebook and open the “Ex2.4 Thompson Beta.ipynb” notebook under Module 2 folder.

1. Examine the notebook.
2. Your task is to implement a thompson sampling beta bernoulli algorithm.
3. We have given you some boiler plate code, you only need to modify the part as indicated.
4. Once you have done that, prepare a simulation. Don't change any other parameter, that is:
   * evaluation\_seed = 1239
   * num\_actions = 10
   * trials = 10000
   * distribution = “bernoulli”
5. Run the simulation, observe the results, and answer the following questions.