POL 212
Winter 2024
Assignment 1

1. Pick a distribution, any distribution (e.g., normal, binomial, Poisson, gamma, uniform, etc.).

    a. How many parameters does it have?

    b. What are those parameters (symbols and name)?

    c. Interpret each of the parameters (e.g., what do lower/higher values mean)?

2. Next, simulate that distribution in R.

    a. Which values of the distribution parameter(s) did you choose?

    b. Using 100 random simulations, how close are the observed values to the actual (chosen) value?

        i. How about with 1000 random simulations?
        ii. How about with 10,000 random simulations?
        iii. How about with 100,000 random simulations?

    c. Provide histogram plots of your sampled values with 100, 1000, 10,000, and 100,000 simulations.