Turn in the project at the beginning of lecture (5:30pm). You need to submit R code, results and graphs but NOT 1000 random numbers.

- 1. Use bernoulli random variable with probability of 0.4 to generate 1000 random number from binomial distribution with n = 20 and p = 0.4. You don't have to report the raw data.
 - (a) Draw histogram from your generated data.
 - (b) Compute the mean, variance and standard deviation.
 - (c) Compute five number summary.
 - (d) Count the frequencies and calculate the relative frequencies of your data.
 - (e) Calculate P(X = x) from the binomial table and compare with your relative frequencies of generated data.
- 2. Complete 3.58 by using R.