Acitvity - Lab 10

- 1. Generate 1000 uniform pseudorandom variates using the runif() function.
 - compute average and variance
 - compare your results with true mean and variance
- 2. Use the round() function together with runif() to generate 1000 pseudo-random integers which take values from 1 through 10. Use the table() function to check whether the observed frequencies for each value are close to what you expect.
- 3. Use sample() function to generate 1000 pseudo-random integers which take values from 1 through 10. Use the table() function to check whether the observed frequencies for each value are close to what you expect.
- 4. Simulate 10000 binomial pseudo-random numbers with parameters 10 and 0.4. Let X be a Binomial(10, 0.4) random variable. Use the simulated numbers to estimate the following quantities:
 - $Pr(X \leq 3)$
 - Pr(X = 3)