1. Create a random variable for the following distributions
   1. Normal distribution with a mean of 120 and a standard deviation of 15.
   2. A uniform distribution with a mean of 50 and a range of 10.
   3. A discrete distribution with a 10% chance of “Fred”, a 40% chance of “Susan”, a 15% chance of “Shashank” and 35% chance of “Bob”.
   4. A discrete distribution with equal chance of integers between 3 and 9 (both inclusive).
2. Create a data table that evaluates the following expression 1000 times: (1a – 1b)\*1d
   1. Find the average, min, max, standard deviation, and the percent of values that are greater than 0.
3. Let’s assume the standard deviation in 1a is related to the outcome of 1c as follows: Fred=10, Susan=18, Shashank=5, Bob=30.
   1. Create a new data table to evaluate the expression in part 2 for each of the four individuals.