Q1. Calculate the PMF and CDF of the random variable X. Assume that X can take on the values given in the file.

Q2. Calculate and plot the probabilities of all the numbers from the file.

Q3. Compare the probability plot with the histogram plot. That is, plot the histograms of the numbers in the file and look for similarities between the probability plot and the histogram plot.

Q4. An unbiased coin was tossed 100 times. Compute the probability that tails came up

i)                    30 times.

ii)                   More than 35 times

iii)                 Between 60 and 70 times