- 1- Download Java https://www.java.com/en/download/windows-64bit.jsp (file size: 73.73 MB)
- 2- Go to settings -> Update & Security -> For developers -> Choose "sideload apps"
- 3- Run the MonteCarlo.exe file
- 4- Enter data in the following fields
 - Demand Text box
 - Days Text box
 - Fill in these two columns (Demand, Frequency)
 - Press enter (from keyboard)
 - Press Simulate button

Model explanation

In general, when faced with significant uncertainty in the process of making an estimation, Monte Carlo method is used to compute this uncertainty.

- 1. The user enters the data of specific product (the daily demand and how often does this demand occur in days).
- 2. The program calculates probability of demand occurrence based on the data entered by the user.
- 3. Hence, this probability is used to compute the cumulative probability. Cumulative probability is the sum of previous probabilities.
- 4. The core of program lies in this step. Generating an interval of random numbers based on the cumulative probability (e.g. 1 to 5, 5 to 20).
- 5. The user enters the desired number of days to simulate the average daily demand.
- 6. Again, the program generates a random number. This number is then mapped in random variable interval and matches it with its daily demand.
- 7. The results are printed and the average daily demand is computed by taking the sum of simulated daily demand column and dividing by the number of days.