**Exercise 1**

In a racing circuit, the five fastest laps (in mph) of a F1 car during a race were:

155, 160, 148, 157 and 149.

(a) Calculate analytically the mean, median, variance, standard deviation and range of the aforementioned set of speeds. In your answer include the units of measurement.

(b) Calculate all the statistics of question (a) using Matlab, compare the results with (a) and comment on them.

(c) Calculate the variance using Matlab utilizing the formula: . Compare the result obtained through Matlab with the value of variance from (a) and comment on it.