**Exercise 5**

You have been provided with one .csv file (Lap1) with racing data from one lap of a racing circuit. Based on the aforementioned data, produce the following figures:

i) Figure 1: Engine Speed Trace for Lap1, Engine Speed (RPM) vs. Distance (Miles)

ii) Develop a new Figure (Figure 2) locating the minima and maxima points of the signal in Figure 1; use a green asterisk for the minima points and a red asterisk for the maxima points.

iii) Develop a new Figure (Figure 3) locating the minima and maxima points of the **smoothed version** of the signal in Figure 1; use a green asterisk for the minima points and a red asterisk for the maxima points.

Each graph should contain, Title, x-axis labeling and y-axis labeling; the units of measurement should also be included.