**Exercise 6**

You have been provided with two .csv files (Lap1 and Lap2) with racing data from two laps of a racing circuit. Based on the aforementioned data, complete the following tasks and answer the following questions:

i) Produce one Figure with two subplots.

Figure 1, Subplot 1: Engine Speed Trace for Lap1, Engine Speed (RPM) vs.

Distance (Miles)

Figure 1, Subplot 2: Engine Speed Trace for Lap2, Engine Speed (RPM) vs.

Distance (Miles)

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

ii) From Figure 1, explain which features can be extracted with respect to the maximum and minimum values of the curves.

iii) Explain briefly how Speed and RPM could be combined in order to provide information related to the gear that the driver is using. Using the .csv file which corresponds to Lap 1, develop a Figure which assists you to identify the gears that the driver is utilizing in this lap.