**DAILY ASSESSMENT FORMAT**

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| **Date:** | **09-07-2020** | **Name:** | **Bhavith** |
| **Course:** | **Matlab Onramp** | **USN:** | **4AL17EC009** |
| **Topic:** | **Plotting data,annotating plots** | **Semester & Section:** | **6th,A** |
| **Github Repository:** | **Bhavith-Online-Courses** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**  **Screenshot (186)** |
| **Report – Report can be typed or hand written for up to two pages.**  **Screenshot (182)** **Plotting Data****Introduction** **After you import data into the MATLAB® workspace, it is a good idea to plot the data so that you can explore its features. An exploratory plot of your data enables you to identify discontinuities and potential outliers, as well as the regions of interest.**  **The MATLAB figure window displays plots. See [Types of MATLAB Plots](https://in.mathworks.com/help/matlab/creating_plots/types-of-matlab-plots.html) for a full description of the figure window. It also discusses the various interactive tools available for editing and customizing MATLAB graphics.** **Load and Plot Data from Text File** **This example uses sample data in count.dat, a space-delimited text file. The file consists of three sets of hourly traffic counts, recorded at three different town intersections over a 24-hour period. Each data column in the file represents data for one intersection.**  **Load the count.dat Data**  **Import data into the workspace using the load function.**  **load count.dat**  **Loading this data creates a 24-by-3 matrix called count in the MATLAB workspace.**  **Get the size of the data matrix.**  **[n,p] = size(count)**  **n = 24**  **p = 3**  **n represents the number of rows, and p represents the number of columns.**  **Plot the count.dat Data**  **Create a time vector, t, containing integers from 1 to n.**  **t = 1:n;**  **Plot the data as a function of time, and annotate the plot.**  **plot(t,count),**  **legend('Location 1','Location 2','Location 3','Location','NorthWest')**  **xlabel('Time'), ylabel('Vehicle Count')**  **title('Traffic Counts at Three Intersections')**  IMG_256 |