Mathematical Modelling & Simulation (MC-409) Lab

Experiment 8 - Write a program for statistical analysis of data using MATLAB

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Code

```
% Statistical Data Analysis

clc;
clear;
close all;

load count.dat
[n,p] = size(count);

t = 1: n;
plot(t,count);

xlabel('Time');
ylabel('Vehicle Count');

% Graph description been done by descriptive statistics from graph tools
mx = max(count);
mu = mean(count);
sigma = std(count);
x_mean = mean(t);
xline(x_mean);

legend('Station 1',  'Location',  'x mean', 'x median', 'x mode', 'x std, 'y mean', 'y median', 'y
mode', 'y std',  'Station 2',  'Station 3');
```