

## MATLAB code for Dataset Level Measurement:

---

```
% a plotted study of the set of data points
% for level measurement
y=[24.3 23.9 24.3 25.0 24.5 23.7 23.9 24.6 24.8 25.5 25.9 26.2 26.3
26.8 25.9 25.2 24.7 24.2 23.7 23.8 23.7 23.8 23.6 23.8 24.7 25.2 26.0
26.1 26.6 26.8 26.7 26.3 25.4 24.7 24.1 23.7];

%manually entering the values from t=120 to t=480
%finding the set of true maxima

[Maxima,MaxIdx] = findpeaks(y);
truemaxima=y(MaxIdx)

%truemaxima =

%    25.0000    26.8000    23.8000    23.8000    26.8000

%calculating the shape of the matrix and feeding it into the linspace
function

d=size(y);
x= linspace(120,480,d(2));

stem(x,y)
%showing both step and regular plots
plot(x,y)
```

---

