Video Demonstration of How to Use MATLAB Excel Builder

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Introduction :

This demonstration is using a video to make an interactive demonstration , since this is a video demonstration there is no need for much talking , so I will make a small description about this demonstration .

Description :

The aim of this video is to show you how you can make a MATLAB program and link it to Microsoft excel .

I will consider that the excel can not plot the data in its workspace (Every body know that excel program has many plotting features). so , the first program will be for plotting , the second program for holding the current figure and the third program for opening a new figure .

The code listed below is used to make a plot in MATLAB program :

```
function graph(x,y,z)
if z==1
    plot(x,y)
end
if z==2
    bar(x,y)
end
if z==3
    comet(x,y)
end
```

Save this program into MATLAB working directory as ***graph.m*** (or use the attached programs)

we can see that the above function has three parameters (x,y & z) , the first parameter (x) is the data that will be plotted at the x-axis , the second parameter (y) is the data that will be plotted at the y-axis , while the final parameter (z) is a selection of the plotting type .

The three types of plotting are :
1-Linear Plotting .
2-Bar Plotting .
3-Comet Plotting (Animated Plotting) .

You can choose which type of graphing do you want as you can see in the video demonstration .

The second program is used to hold the current figure in order to plot more than one curve at the same time, the program is listed below :

```
function holdn()
hold on
```

Save this program with a name of ***holdn.m*** (or use the attached programs)

This program has not any input parameters , so it is an empty function (No input , No output)

The third program is used to open a new figure for plotting, the code is listed below :

```
function fig()
figure
```

save this code in a name of ***fig.m*** (or use the attached programs)

Also this program is an empty function .

→Now we can see the video demonstration for the other steps .