{ Assingment 1 }

- By : 'Ahamd Dar Khalil'

_____

To benefit from files that attached which are :

- sigadd
- sigfold
- sigmult
- sigshift
- stepseq
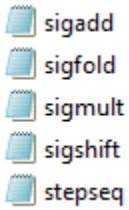
You must put them is the matlab current directory , then you can create script and use them easily , here I will show the way to do that and simple example how to use them .

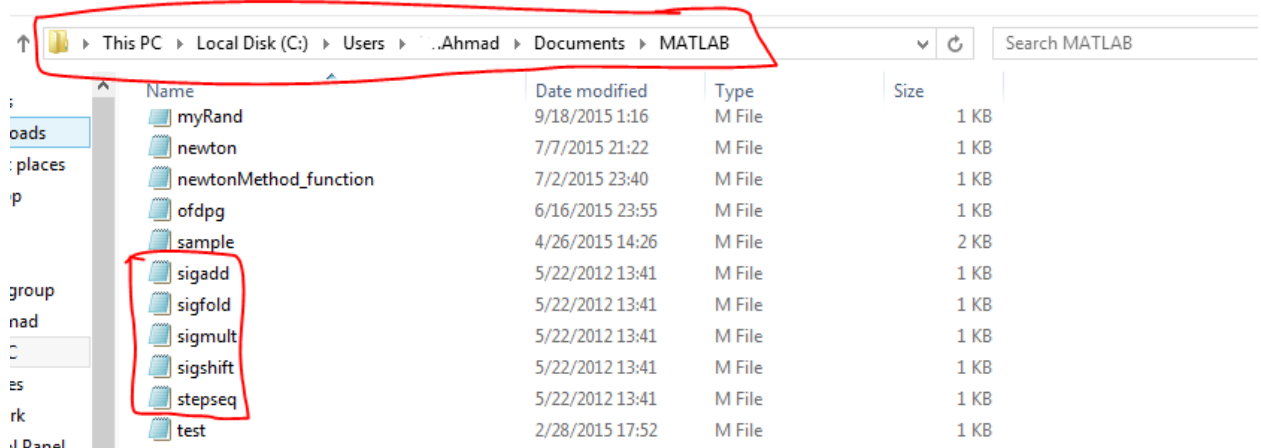1- Open the matlab and write on the command window the following command :
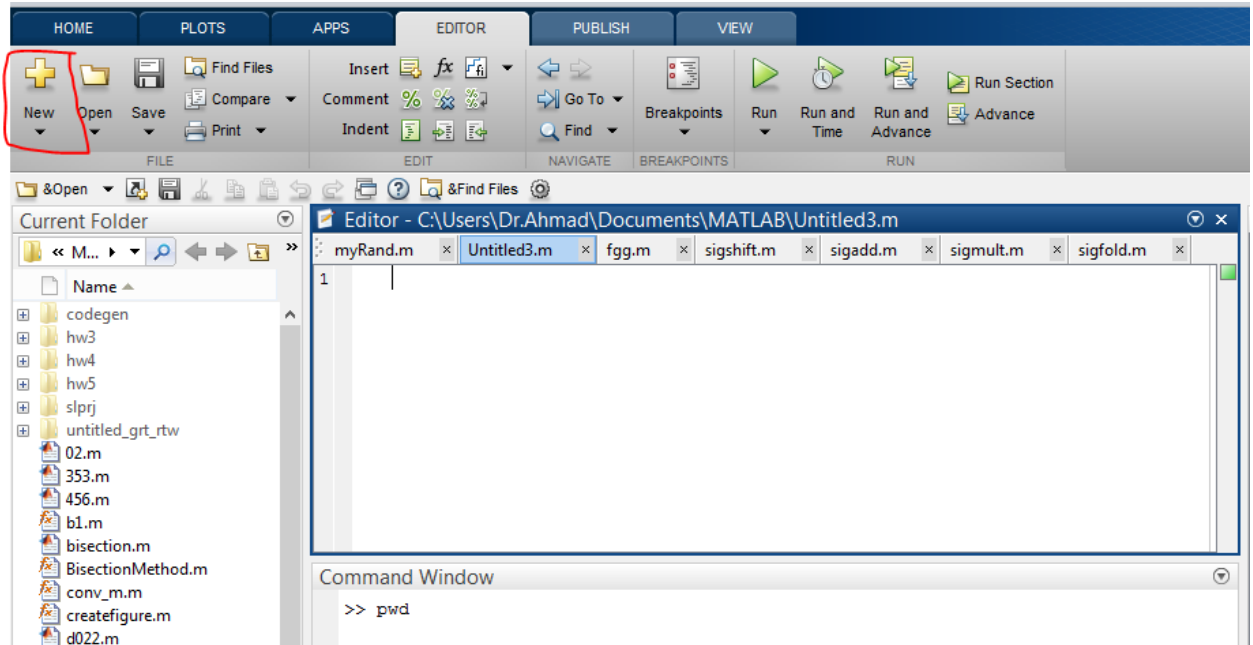
```
Command Window
    >> pwd

    ans =

    C:\Users\    Ahmad\Documents\MATLAB
```

The path above is the path of your current directory .

2- Go the path was generated in the previous step and past the files on it like shown .

Name	Date modified	Type	Size
myRand	9/18/2015 1:16	M File	1 KB
newton	7/7/2015 21:22	M File	1 KB
newtonMethod_function	7/2/2015 23:40	M File	1 KB
ofdpg	6/16/2015 23:55	M File	1 KB
sample	4/26/2015 14:26	M File	2 KB
sigadd	5/22/2012 13:41	M File	1 KB
sigfold	5/22/2012 13:41	M File	1 KB
sigmult	5/22/2012 13:41	M File	1 KB
sigshift	5/22/2012 13:41	M File	1 KB
stepseq	5/22/2012 13:41	M File	1 KB
test	2/28/2015 17:52	M File	1 KB

This PC ▸ Local Disk (C:) ▸ Users ▸ ..Ahmad ▸ Documents ▸ MATLAB   Search MATLAB

3- Make new script by :

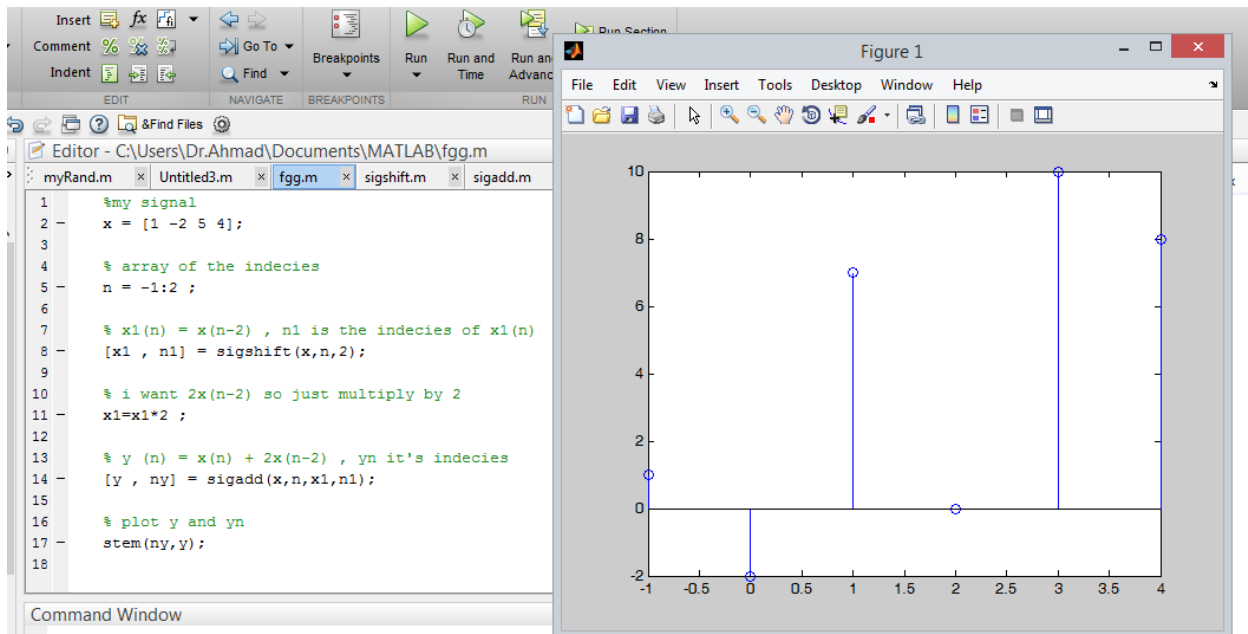4- Now , you can use all the functions directly on your script .

Simple Example :

Write matalb program the generate and plot the sequence :

$Y(n) = x(n) + 2*x(n-2)$

Where $x(n) = [1 -2\ 5\ 4]$. n = 0 at $x(n) = -2$.

Solution :

And here is the source code :

```
%my signal
x = [1 -2 5 4];

% array of the indecies
n = -1:2 ;

% x1(n) = x(n-2) , n1 is the indecies of x1(n)
[x1 , n1] = sigshift(x,n,2);

% i want 2x(n-2) so just multiply by 2
x1=x1*2 ;

% y (n) = x(n) + 2x(n-2) , yn it's indecies
[y , ny] = sigadd(x,n,x1,n1);

% plot y and yn
stem(ny,y);
```