

# **DIGITAL SIGNAL PROCESSING**

## **REPORT05**

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## 1.1. Exercise 1:

ex2.sce ex3.sce ex4.sce ex5.sce ex6.sce ex7.sce ex8.sce ex9.sce ex10.sce

```
1 clc;
2 clf;
3 clear all;
4 function [ym, yorigin]=delay(xn, xorigin,k);
5     n=(-xorigin):(size(xn,2)-xorigin-1);
6     if(xorigin==k) then
7         ym=xn;
8         yorigin=xorigin-k;
9         n1=(-yorigin):(size(ym,2)-yorigin-1);
10    else
11        ym=zeros(1,k-xorigin,xn);
12        yorigin=0;
13        n1=0:(size(ym,2)-1);
14    end
15 subplot(221);
16 a=gca();
17 a.x_location='origin';
18 b=gca();
19 b.y_location='origin';
20 plot2d3(n,xn,4);
21 title('x(n)');
22 xlabel('n');
23 ylabel('x(n)');
24 subplot(222);
25 a=gca();
26 a.x_location='origin';
27 b=gca();
28 b.y_location='origin';
29 plot2d3(n1,ym,4);
30 title('y(n)');
31 xlabel('n');
32 ylabel('y(n)');
33 endfunction
34
```

Line 9, Column 45.

Scilab 6.1.0 Console

File Edit Control Applications ?

File Browser

C:\Users\PC\Documents

Documents

- Adobe
- Ardano
- Custom Office Templates
- CyberLink
- DesignSoft
- FIFA ONLINE 4
- Fritzing
- FINHOME
- LABVIEW Data
- League of Legends
- MATLAB
- My Music
- My Pictures
- My Videos
- N&U Office Tuy dinh
- National Instruments
- Sound recordings
- StarDock
- temp
- Visual Studio 2017
- Zoom
- Alarm\_clock.aptr
- anh.docx
- Nhac - L&A link
- da.docx

Case sensitive Regular expression

--> convolution([1 2 -1], [4 1 2 5], 0)

ans =

4. 9. 0. 8. 8. -5.

--> |

Variable Browser

Name	Value	Type	Visibility	Memory
A	[1 2 -1]	Double	local	232 B
B	[4 1 2 5]	Double	local	240 B
ans	1x5	Double	local	256 B

Command History

```
-- x=[1,2,3,4,5,6,7]
-- size(x,2)
-- delay([1,-2,3,6],2,1)
-- advance([1,2,3,4,5],1,5)
-- advance([1,2,3,4],2,2)
-- advance([1,2,3,4,5],1,5)
-- fold([1,2,3,4,5],2)
-- fold([1,2,3,4,5],2)
-- add([1,2,3,4],1,[1,2,3,4],0)
-- add([1,2,3,4],0,[1,2,3,4],1)
-- add([1,2,3,4],1,[1,2,3,4],0)
-- add([1,2,3,4],0,[1,2,3,4],1)
-- add([1,2,3,4],2,[1,2,3,4],1)
-- multi([1,2,3,4],0,[1,2,3,4],1)
-- multi([1,2,3,4],0,[1,2,3,4],1)
-- multi([1,2,3,4],1,[1,2,3,4],0)
-- multi([1,2,3,4],1,[1,2,3,4],0)
-- delay([1,2,3,6],2,1)
-- delay([1,-2,3,6],2,1)
-- // - 18/11/2020 15:04:38 - //
-- // - 18/11/2020 15:22:08 - //
A=[1 2];
B=[0 2];
conv(A,B)
A=[1 2 3];
B=[0 1 2 5];
conv(A,B)
A=[1 2 -1];
B=[4 1 2 5];
conv(A,B)
convolution([1 2 -1], [4 1 2 5], 0)
convolution([4 1 2 5], [1 2 -1], 1)
convolution([1 2 -1], [4 1 2 5], 0)
```

Graphic window number 0

File Tools Edit ?

Graphic window number 0

## 1.2. Exercise 2:



### 1.3. Exercise 3:

