PYHILL EDUCATION

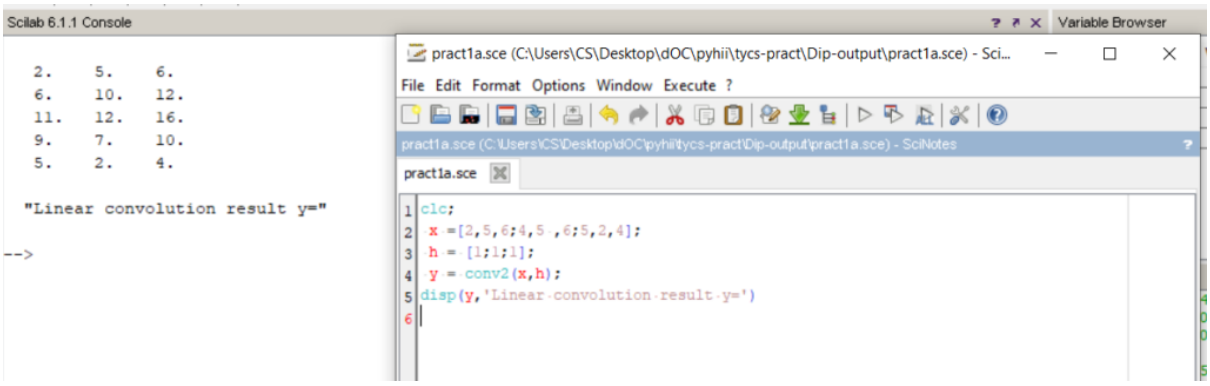
SEM-6-PRACTICALS-DIGITAL IMAGE PROCESSING

2D Linear Convolution, Circular Convolution between two 2D matrices.

a. Linear Convolution

code:

```
clc;
 x =[2,5,6;4,5 ,6;5,2,4];
 h = [1;1;1];
 y = conv2(x,h);
disp(y,'Linear convolution result y=')
```



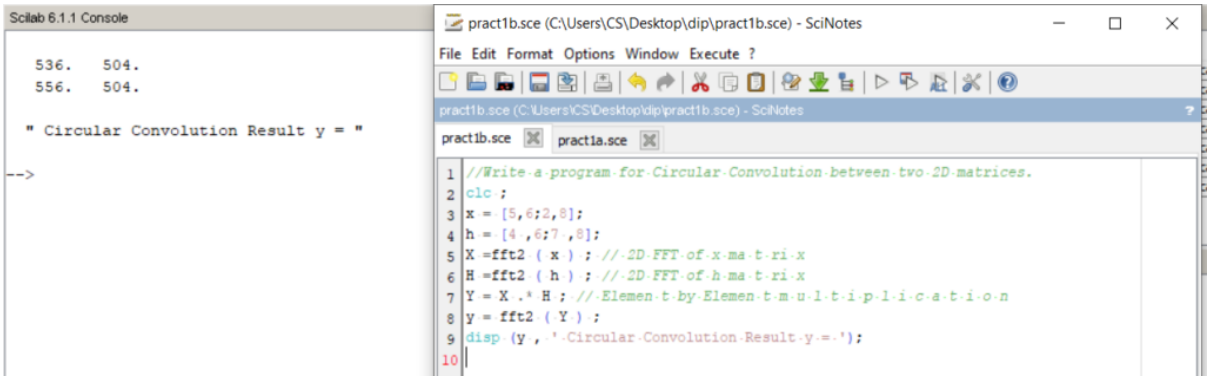
b. Circular Convolution between two 2D matrices.

code:

```
//Write a program for Circular Convolution between two 2D matrices.
clc ;
x = [5,6;2,8];
```

```
h = [4 ,6;7 ,8];
X =fft2 ( x ) ; // 2D FFT of x ma t ri x
H =fft2 ( h ) ; // 2D FFT of h ma t ri x
Y = X .* H ; // Elemen t by Elemen t m u l t i p l i c a t i o n
y = fft2 ( Y ) ;
disp (y , ' Circular Convolution Result y = ');
```

Output:-



← PREVIOUS

practical 2

NEXT →

Practical 1

Practical 8

Practical 9

Practical 10

About Us

Welcome to Pyhill Education we will offer interactive python courses. Learn from a team of Pyhill with videos lessons and fun coding challenges and projects. we will also provide Mumbai university computer science BSc-Cs

Great Quotes

-> "The best way to predict the future is to create it."

-> To err is human, but to really foul things up you need a computer.

-> "Imagination is more important than knowledge."

Quick links

Home

BLOG

MUMBAI-UNIVERSITY

AMAZON OFFERS

ABOUT US

Search

Follow us

and MSc-Cs Notes and Practicals. Pyhill Education.