

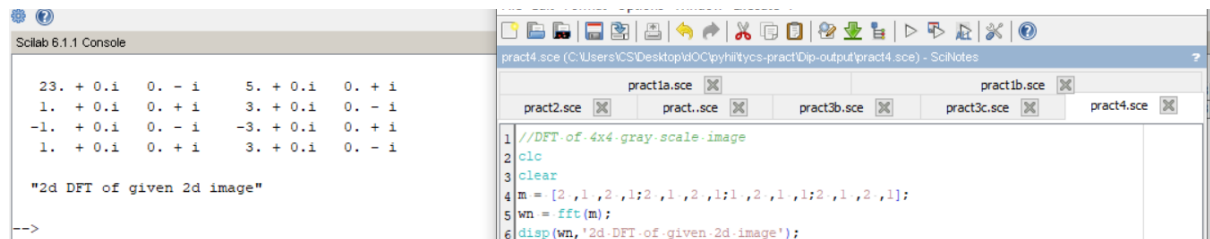
SEM-6-PRACTICALS-DIGITAL IMAGE PROCESSING

DFT of 4×4 gray scale image.

Code:-

```
//DFT of 4x4 gray scale image
clc
clear
m = [2 ,1 ,2 ,1;2 ,1 ,2 ,1;1 ,2 ,1 ,1;2 ,1 ,2 ,1];
wn = fft(m);
disp(wn,'2d DFT of given 2d image');
```

Output:-



The screenshot shows the Scilab 6.1.1 interface. The console window on the left displays the output of the DFT calculation, which is a 4x4 matrix of complex numbers. The editor window on the right shows the code used to calculate the DFT.

```
Scilab 6.1.1 Console
23. + 0.i  0. - i   5. + 0.i  0. + i
1. + 0.i  0. + i   3. + 0.i  0. - i
-1. + 0.i  0. - i  -3. + 0.i  0. + i
1. + 0.i  0. + i   3. + 0.i  0. - i

"2d DFT of given 2d image"
-->
```

```
pract4.sce (C:\Users\CS\Desktop\WOC\pyhilltycs-pract\Oip-output\pract4.sce) - SciNotes
practia.sce  pract..sce  pract3b.sce  pract3c.sce  pract4.sce
1 //DFT of 4x4 gray scale image
2 clc
3 clear
4 m = [2 ,1 ,2 ,1;2 ,1 ,2 ,1;1 ,2 ,1 ,1;2 ,1 ,2 ,1];
5 wn = fft(m);
6 disp(wn,'2d DFT of given 2d image');
```

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-> "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


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