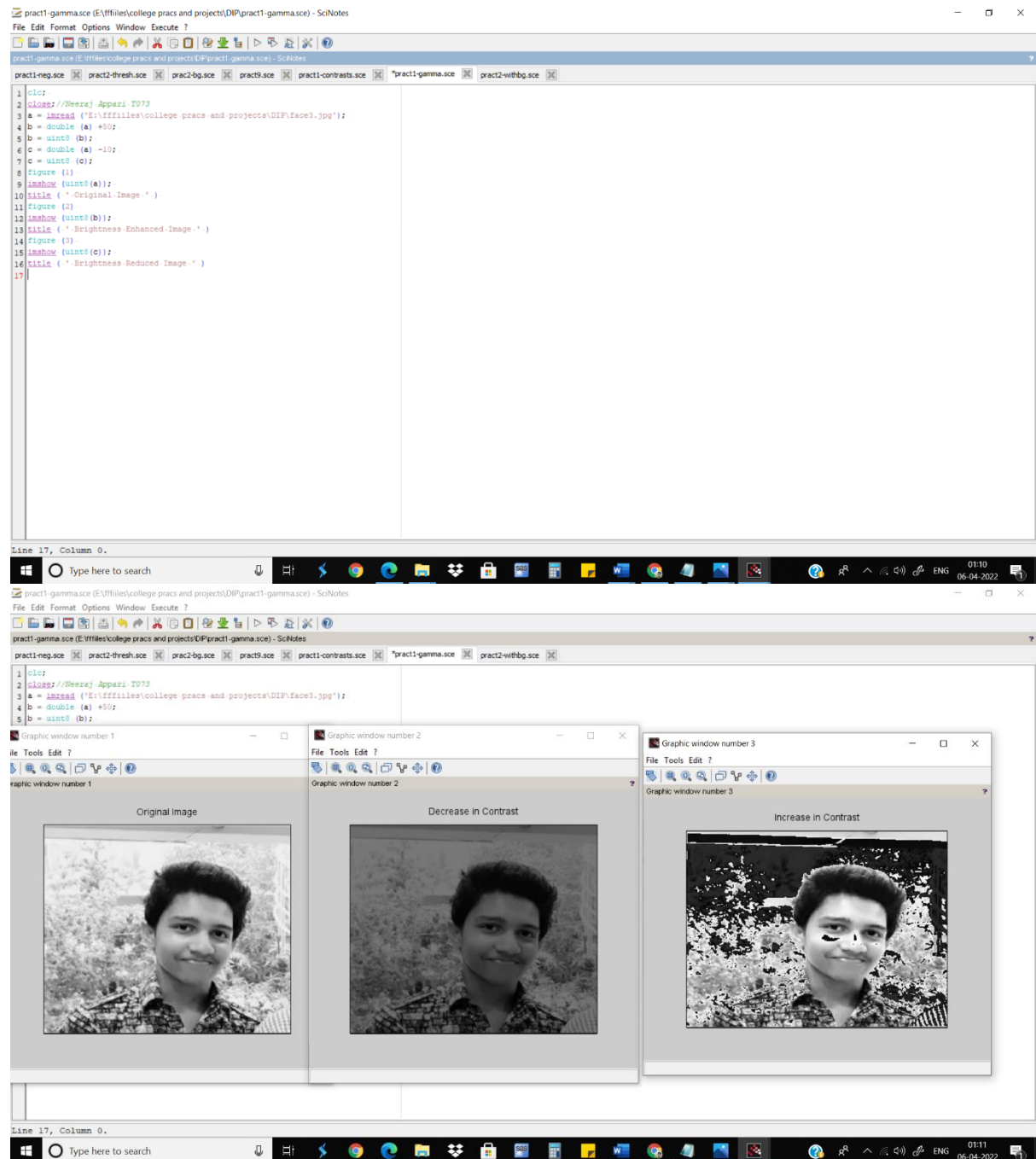
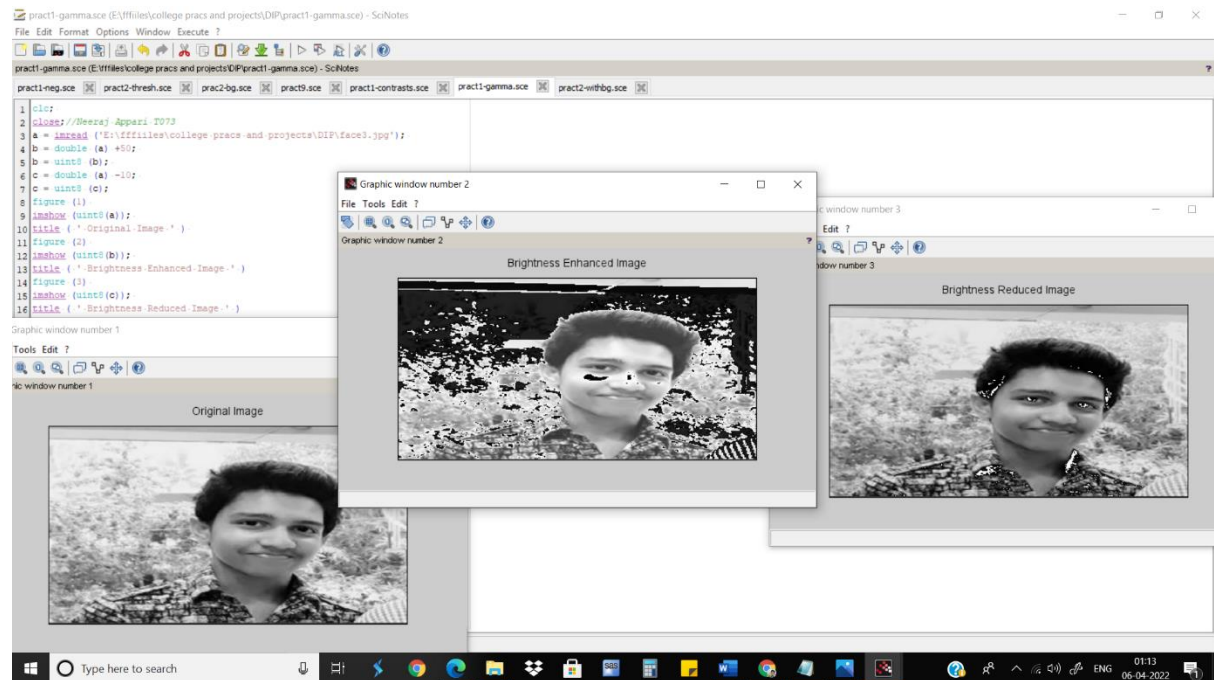


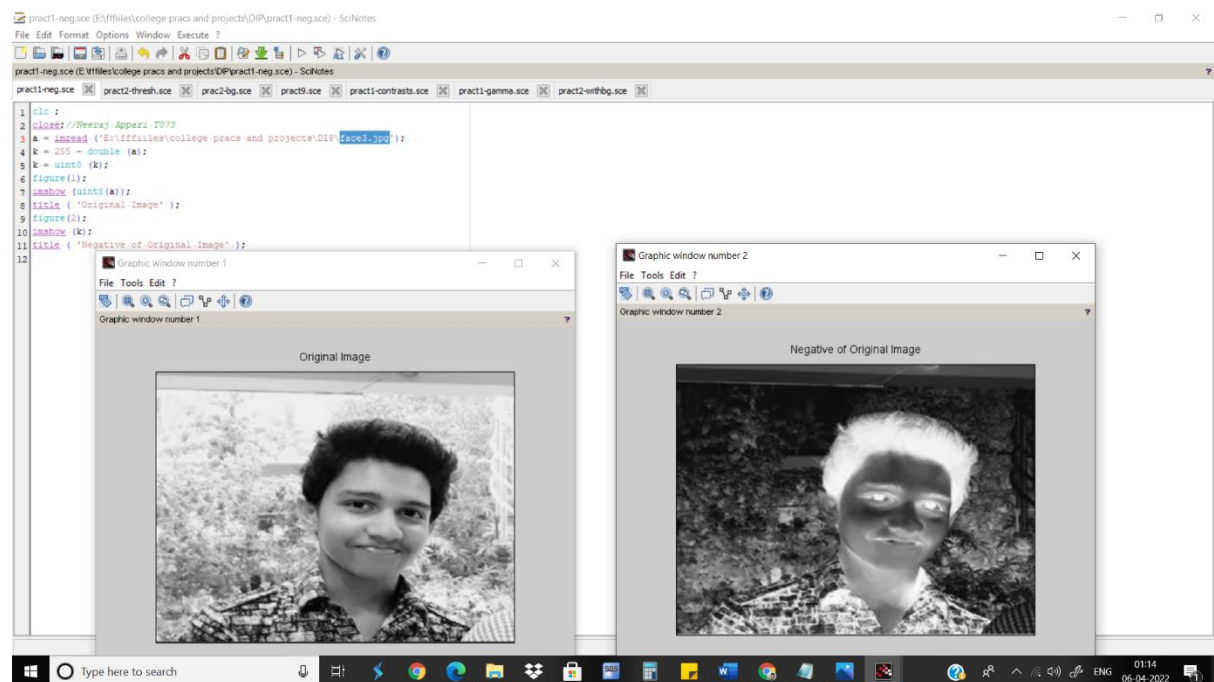
Practical 1-A



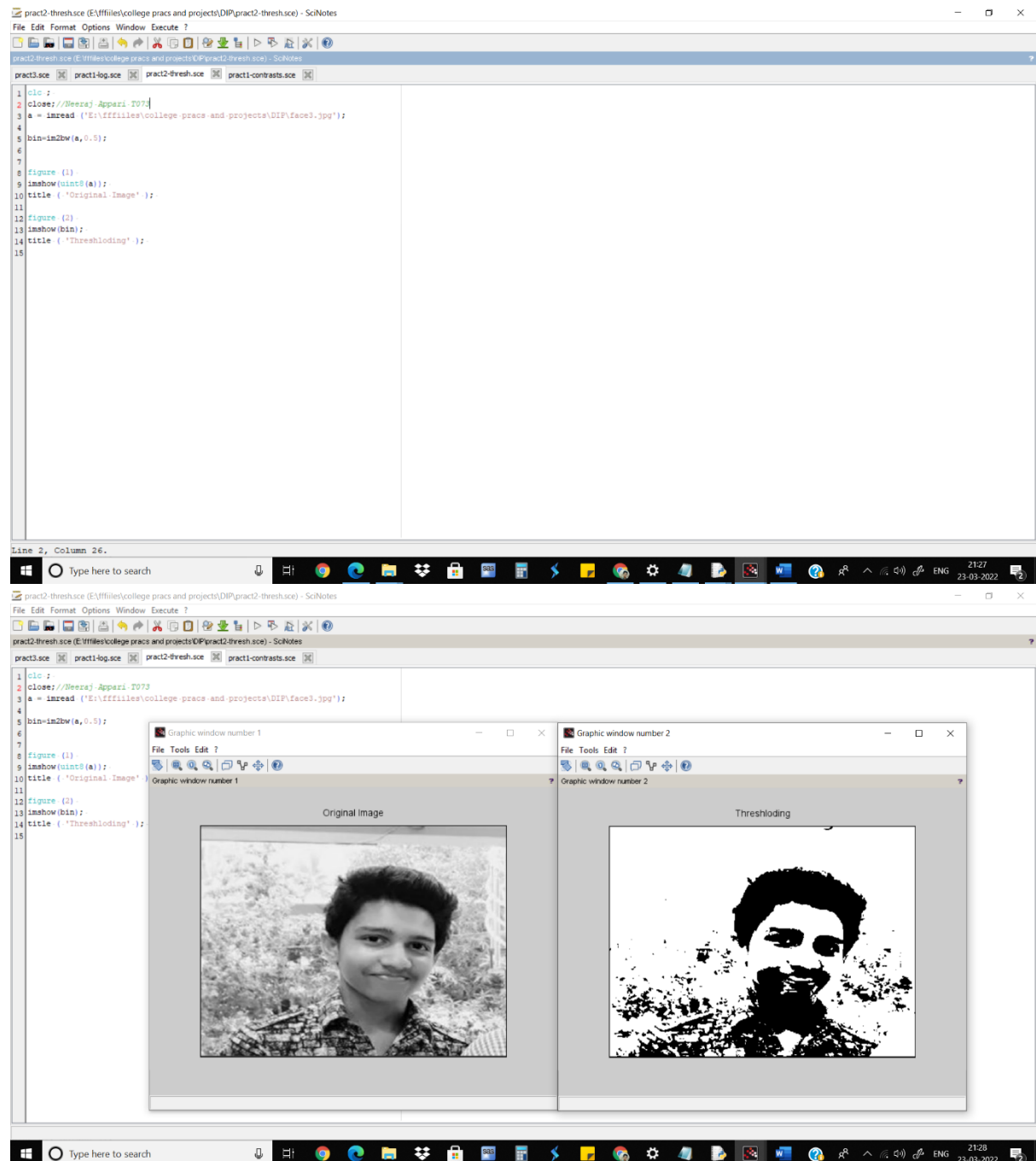
Practical 1-B



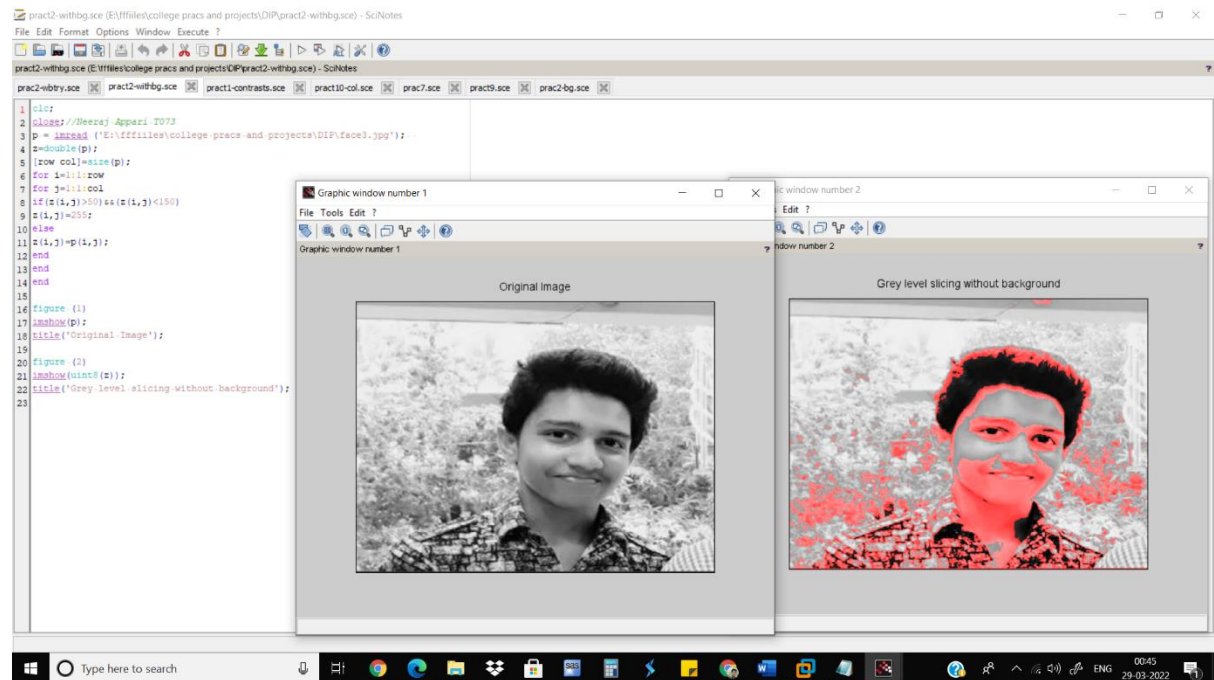
Practical 1-C



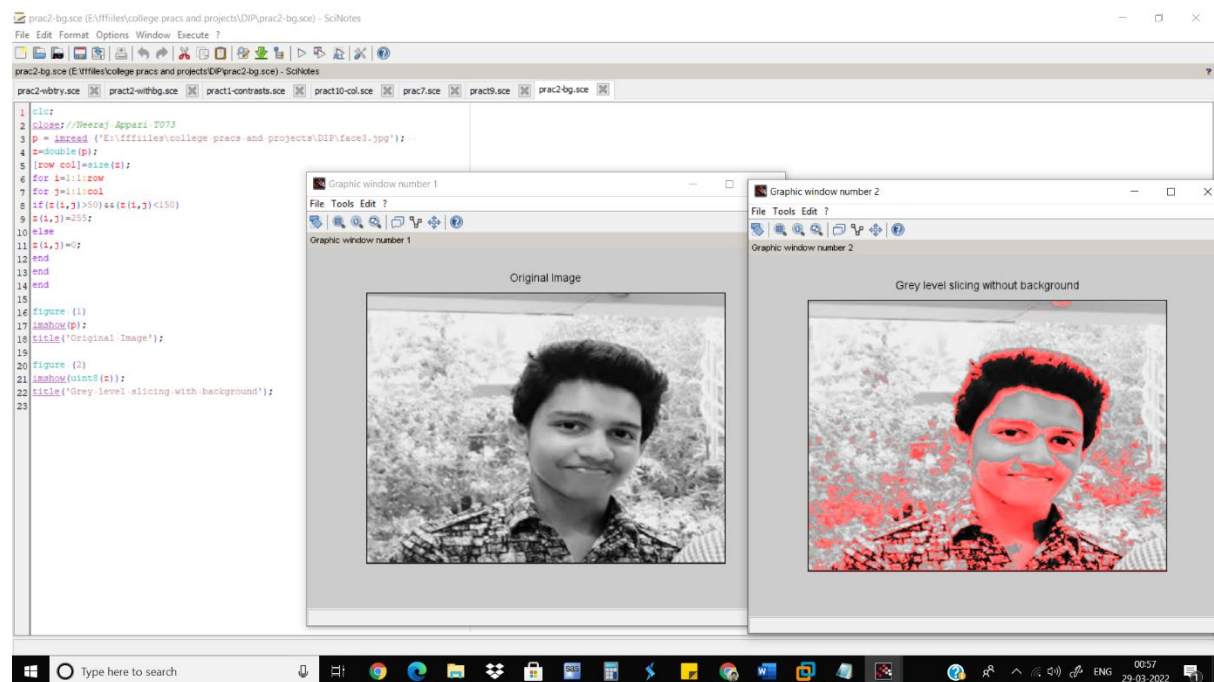
Practical 2-A



Practical 2-B



Practical 2-C



Practical 9

pract9.sce (E:\files\college pracs and projects\DI\pract9.sce) - SciNotes

File Edit Format Options Window Execute ?

pract9.sce (E:\files\college pracs and projects\DI\pract9.sce) - SciNotes

```
1 clc ;
2 close; //Beezaj Appari T073
3
4 function imCompressed = compress(imFullOneChannel, SingularValuesToKeep)
5
6     [U, Sigma, V] = svd(imFullOneChannel);
7     SingularValues = diag(Sigma);
8     imCompressed = U(:,1:SingularValuesToKeep) * diag(SingularValues(1:SingularValuesToKeep)) * V(:,1:SingularValuesToKeep);
9
10 endfunction
11
12 im = imread('E:\files\college pracs and projects\DI\faceNV.png');
13 figure(1)
14 imshow(im)
15 title('Original Image');
16 imFull = double(im);
17
18 imCompressed(:,:,1) = compress(imFull(:,:,1), 80);
19 imCompressed(:,:,2) = compress(imFull(:,:,2), 80);
20 imCompressed(:,:,3) = compress(imFull(:,:,3), 80);
21 imCompressedFinal = uint8(imCompressed);
22
23 figure(2)
24 imshow(imCompressedFinal)
25 title('Compressed Image')
26
27 imwrite(imCompressedFinal, 'Compressed_faceNV.jpg')
```

Line 3, Column 0.

Type here to search

pract9.sce (E:\files\college pracs and projects\DI\pract9.sce) - SciNotes

File Edit Format Options Window Execute ?

pract9.sce (E:\files\college pracs and projects\DI\pract9.sce) - SciNotes


```
1 clc ;
2 close; //Beezaj Appari T073
3
4 function imCompressed = compress(imFullOneChannel, SingularValuesToKeep)
5
6     [U, Sigma, V] = svd(imFullOneChannel);
7     SingularValues = diag(Sigma);
8     imCompressed = U(:,1:SingularValuesToKeep) * diag(SingularValues(1:SingularValuesToKeep)) * V(:,1:SingularValuesToKeep);
9
10 endfunction
11
12 im = imread('E:\files\college pracs and projects\DI\faceNV.png');
13 figure(1)
14 imshow(im)
15 title('Original Image');
16 imFull = double(im);
17
18 imCompressed(:,:,1) = compress(imFull(:,:,1), 80);
19 imCompressed(:,:,2) = compress(imFull(:,:,2), 80);
20 imCompressed(:,:,3) = compress(imFull(:,:,3), 80);
21 imCompressedFinal = uint8(imCompressed);
22
23 figure(2)
24 imshow(imCompressedFinal)
25 title('Compressed Image')
26
27 imwrite(imCompressedFinal, 'Compressed_faceNV.jpg')
```

Line 3, Column 0.

Type here to search


Graphic window number 1

Original Image

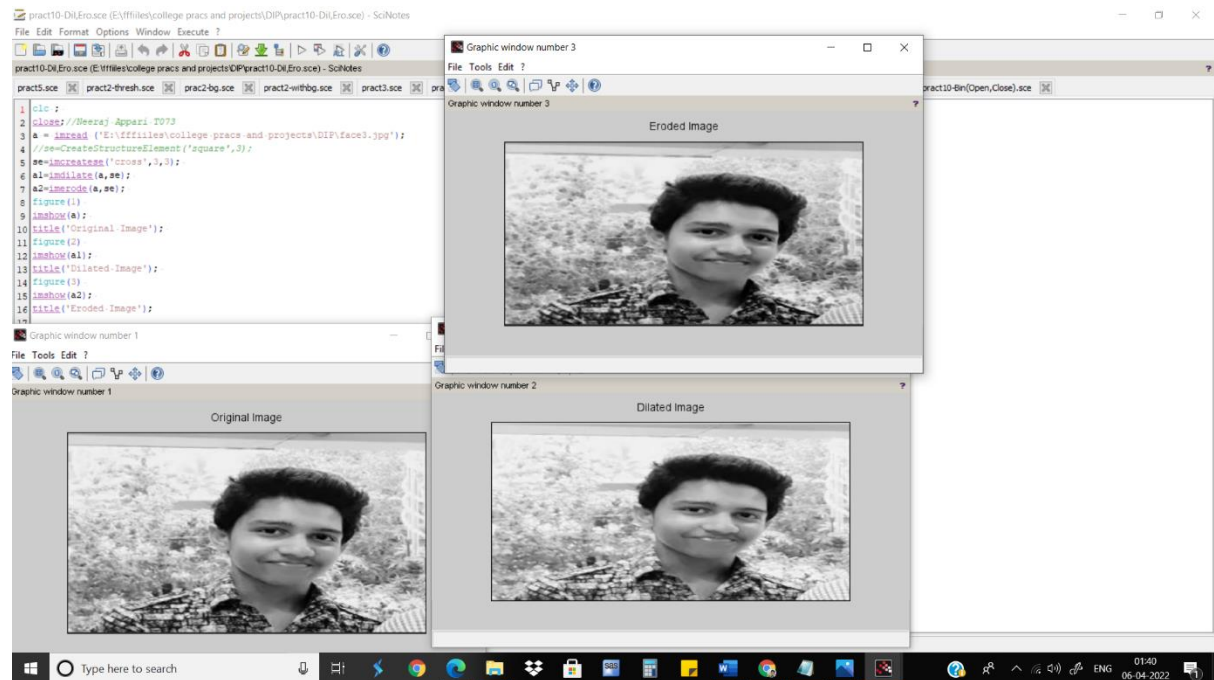


Graphic window number 2

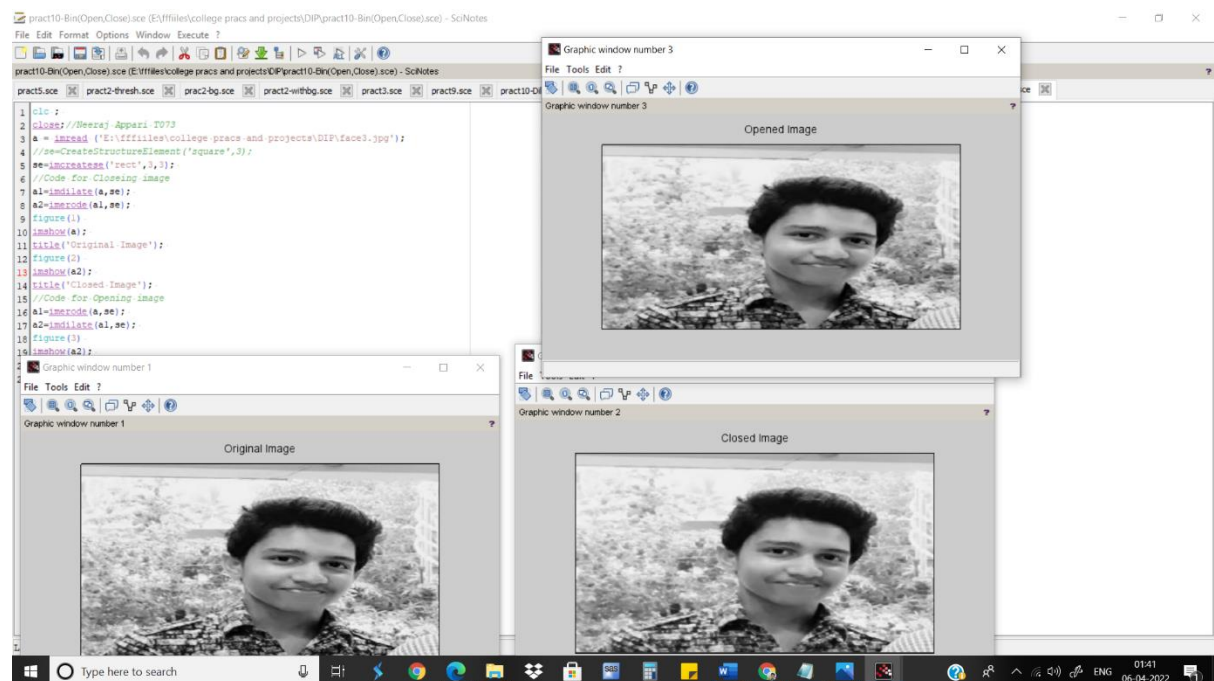
Compressed Image



Practical 10-A



Practical 10-B



Practical 10-C

pract10-Color(Gray).sce (E:\ffiles\college pracs and projects\DI\pract10-Color(Gray).sce) - SciNotes

File Edit Format Options Window Execute ?

pract10-Color(Gray).sce | pract2-fresh.sce | pract2-bq.sce | pract2-wfbq.sce | pract3.sce | pract9.sce | pract10-0il_Ero.sce | pract10-col.sce | pract10-Color(Gray).sce | pract10-Col|test.sce | pract10-Bin(Open,Close).sce

```
1 clc ;
2 close; //Weezj Appari T07
3 a = imread('E:\ffiles\college pracs and projects\DI\face.png');
4 [count1, cells]=imhist(a(:,:,1));
5 figure(1):plot(count1);
6 b=imhisteq(a(:,:,1));
7 figure(2);
8 imshow(b);
9 figure(3);
10 imshow(a);
11 title('Original Image');
12 [count, cells]=imhist(b(:,:,1));
13 figure(4):plot(count);
14
```

Line 3, Column 26.

aphic window number 2

ool Edit ?

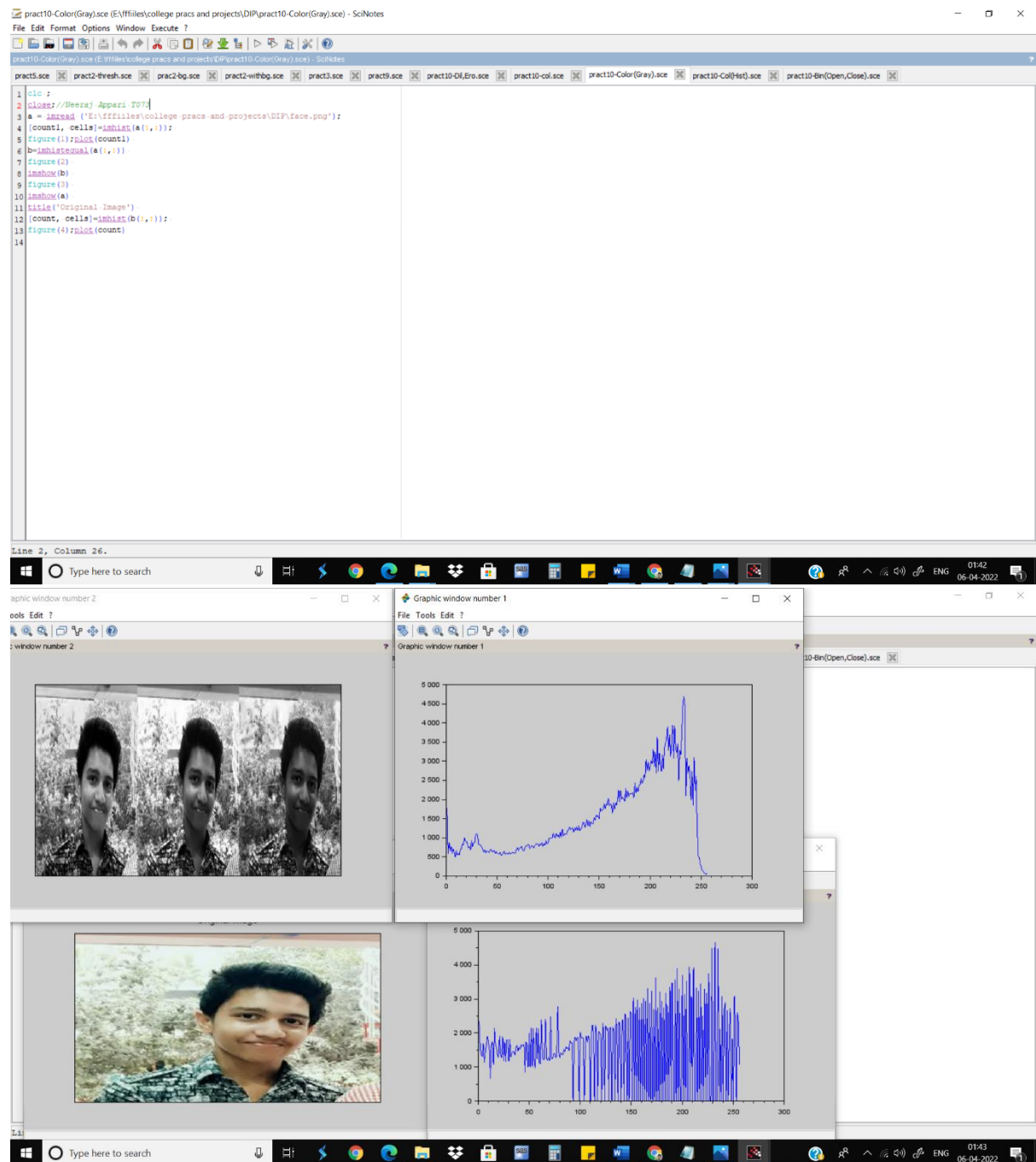
Graphic window number 1

File Tools Edit ?

Graphic window number 2

10-Bin(Open,Close).sce

2.1



The image shows a MATLAB script in the SciNotes editor. The script performs the following steps: 1. Clears the command window and closes all figures. 2. Reads an image 'face.png' from the file path 'E:\ffiles\college pracs and projects\DI\face.png'. 3. Calculates the histogram of the first channel (red) of the image, returning the counts and bin centers. 4. Displays the histogram in 'Graphic window number 1'. 5. Applies histogram equalization to the first channel of the image. 6. Displays the equalized image in 'aphic window number 2'. 7. Displays the original image in 'Graphic window number 2'.

Practical 10-D

pract10-col.sce (E:\files\college pracs and projects\IP\pract10-col.sce) - SciNotes

File Edit Format Options Window Execute ?

pract10-col.sce (E:\files\college pracs and projects\IP\pract10-col.sce) - SciNotes

pract5.sce | pract2-thresh.sce | pract2-bq.sce | pract2-wtbg.sce | pract3.sce | pract9.sce | pract10-Oil_Ero.sce | pract10-col.sce | pract10-Color(Gray).sce | pract10-Coll|test.sce | pract10-Bin(Open,Close).sce

```
1 clc ;
2 close; //Weezje Appari T073.
3 RGB=imread('E:\files\college pracs and projects\IP\face.png');
4 R=RGB;
5 G=RGB;
6 B=RGB;
7 R(:,:,2)=0;
8 R(:,:,3)=0;
9 G(:,:,1)=0;
10 G(:,:,3)=0;
11 B(:,:,1)=0;
12 B(:,:,3)=0;
13 figure(1);
14 imshow(RGB);
15 title('Original Image');
16 figure(2);
17 imshow(R);
18 title('Image with Red Component');
19 figure(3);
20 imshow(G);
21 title('Image with Green Component');
22 figure(4);
23 imshow(B);
24 title('Image with Blue Component');
25
```


Line 13, Column 10.

Type here to search

Graphic window number 1

File Tools Edit ?

Original Image



Graphic window number 2

File Tools Edit ?

Image with Red Component




Image with Green Component





Image with Blue Component



Type here to search

01:43 06-04-2022

Practical 10-E

