

EC1011: COMPUTING  
LAB 08: Domain Specific  
Programming Languages

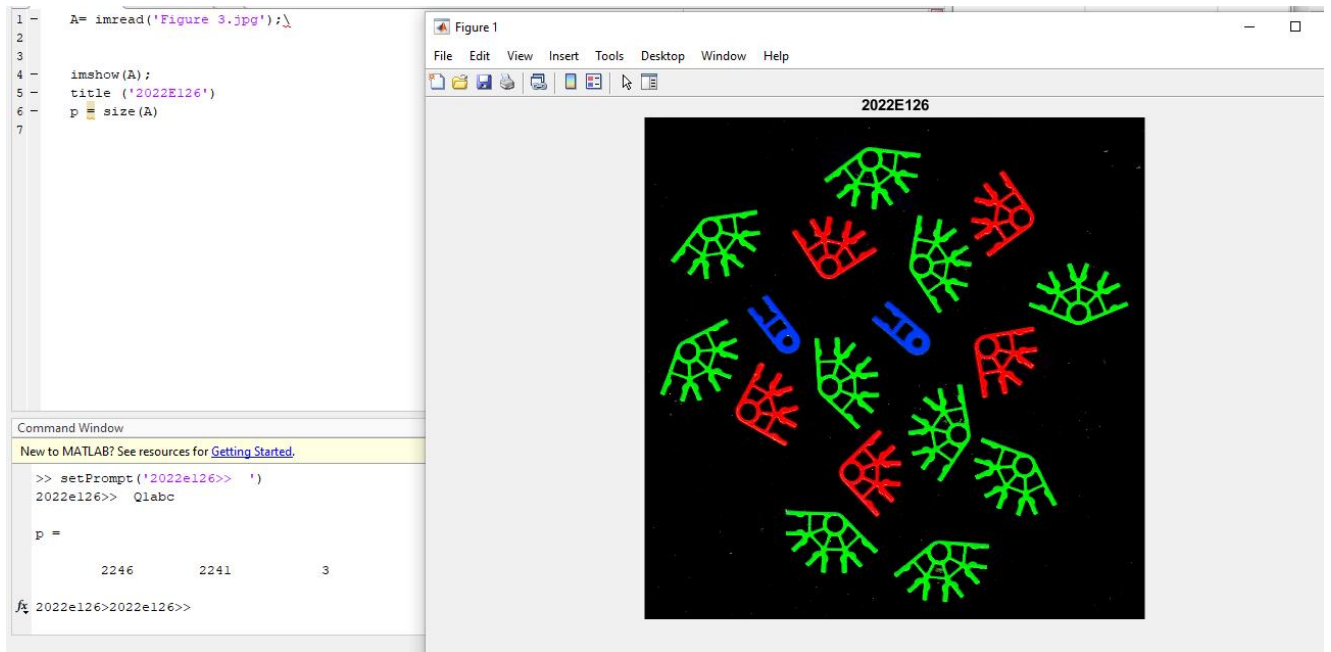
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REG. NO. : 2022/E/126

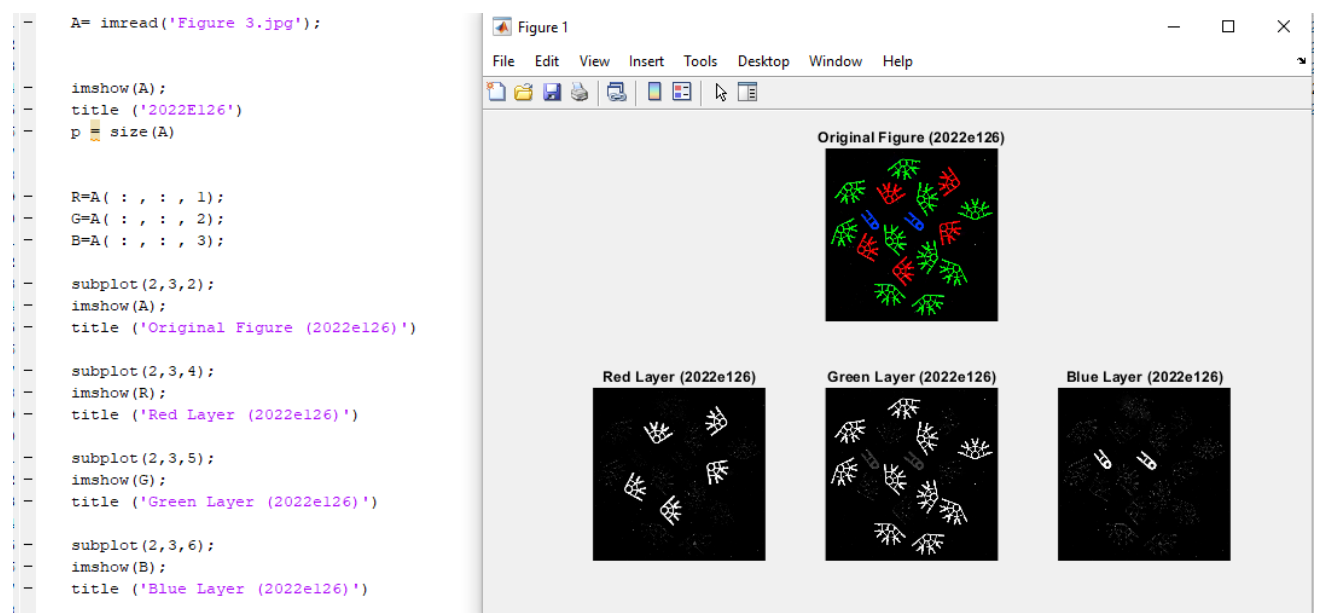
DATE ASSIGNED : 21 JUNE 2023

01.

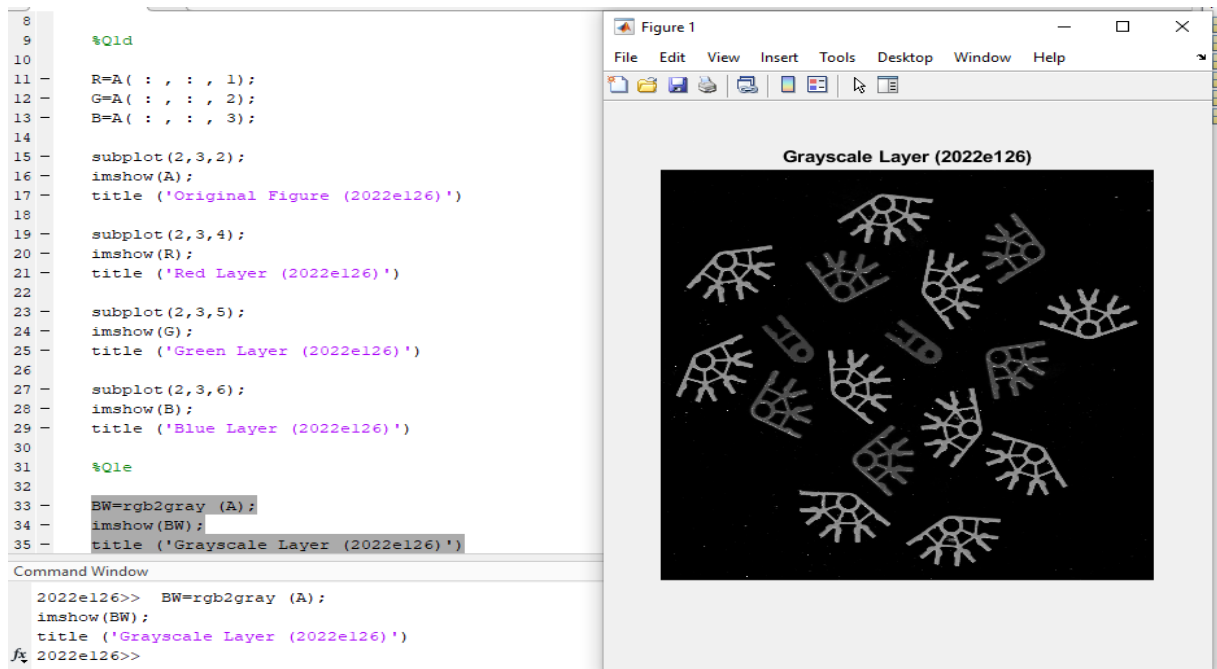
(a),(b),(c)



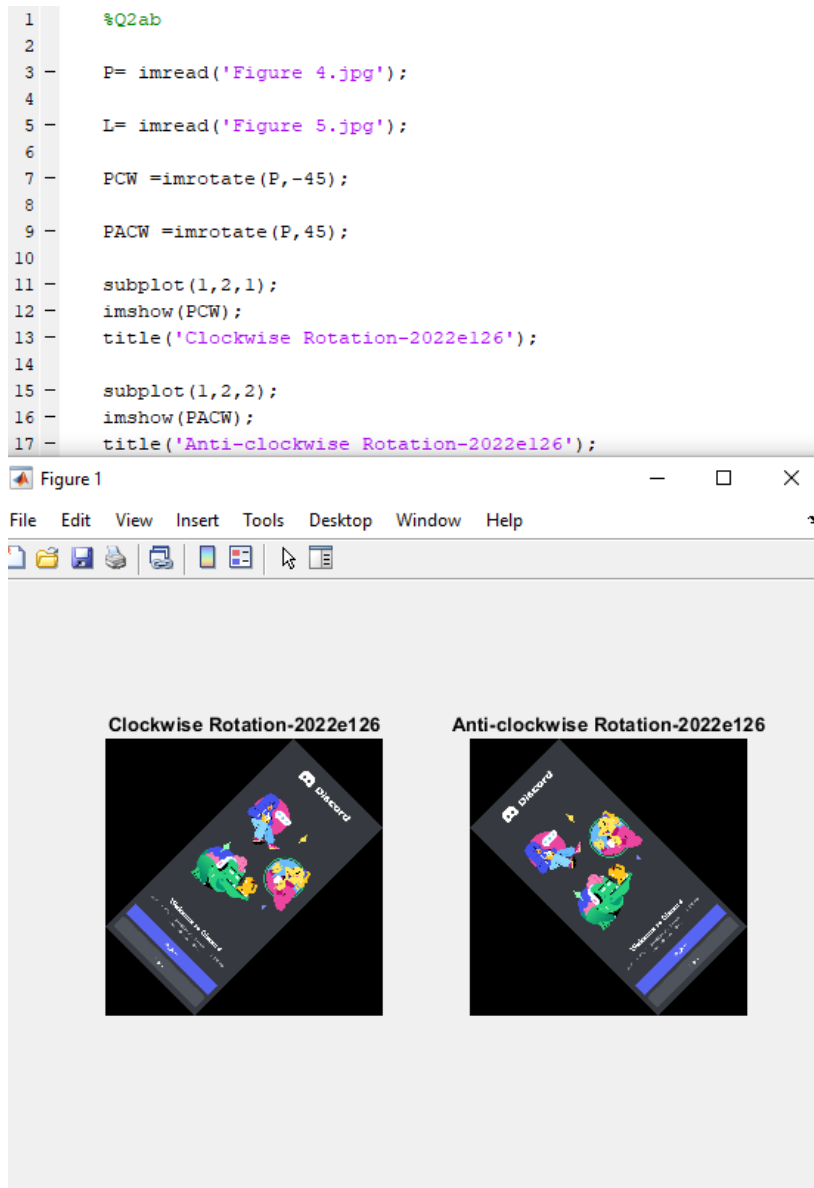
(d)



(e)

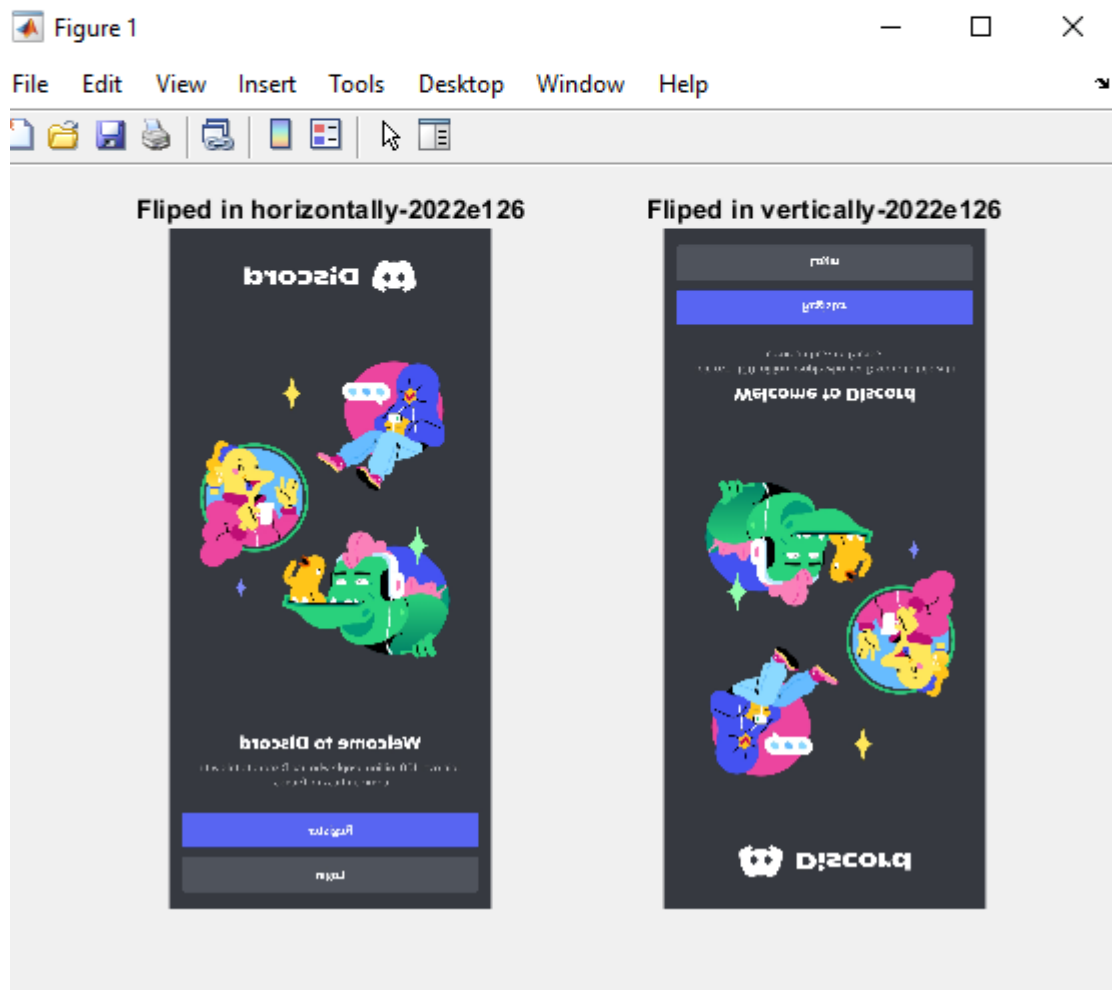


02. (a),(b)



(c)

```
20 %Q2c_2022e126
21
22
23 - PFV=flip(P,2);
24 - PFH=flip(P,1);
25
26 - subplot(1,2,1);
27 - imshow(PFV);
28 - title('Fliped in horizontally-2022e126');
29
30 - subplot(1,2,2);
31 - imshow(PFH);
32 - title('Fliped in vertically-2022e126');
33
```

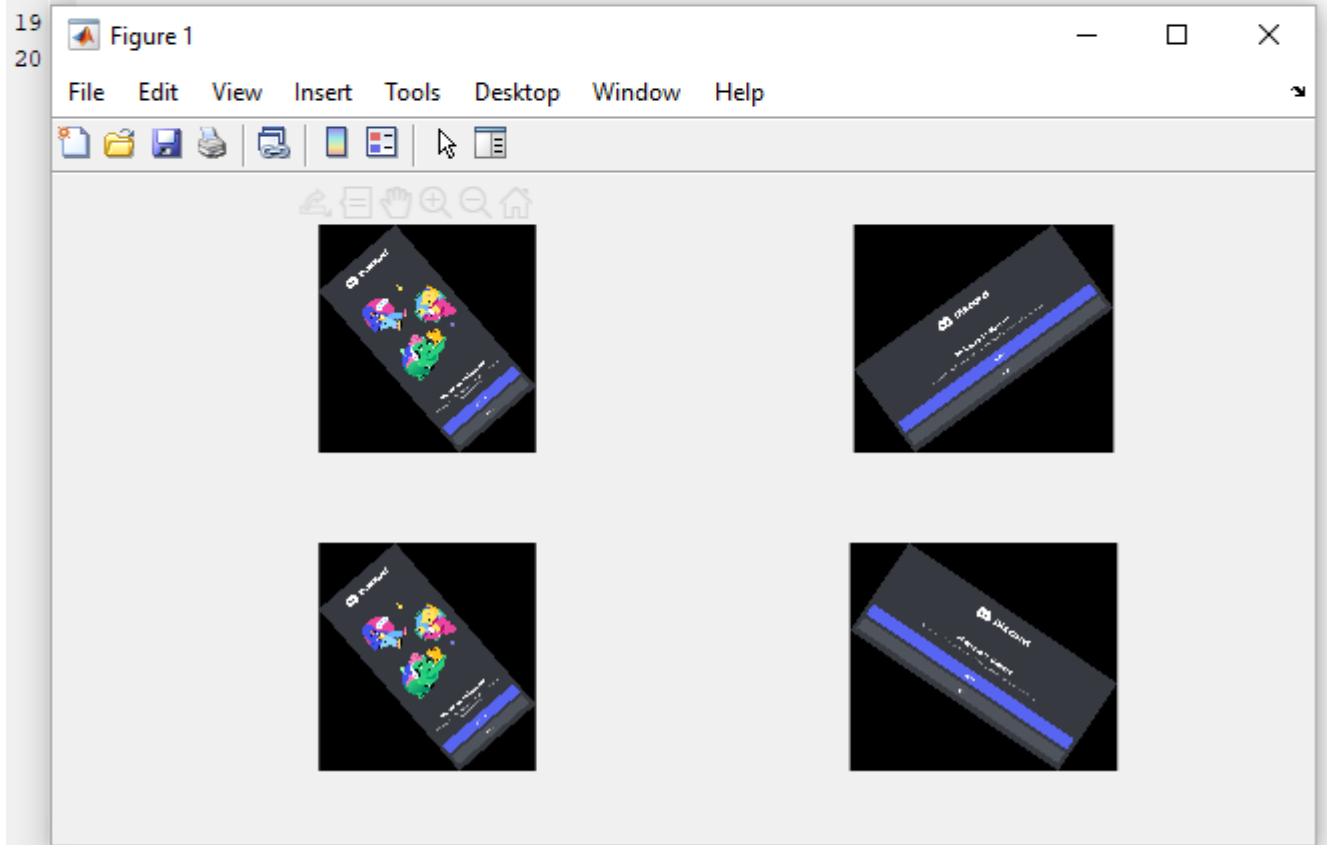


(d)

```
1 %Q2d_2022e126
2 function visible = phoneRotate(x)
3 P= imread('Figure 4.jpg');
4 L= imread('Figure 5.jpg');
5
6 if (x>=360)
7     while (x>=360)
8         x=x-360;
9     end
10
11 else if (x<0)
12     while (x<0)
13         x=x+360;
14     end
15 end
16 end
17
18
19 if (0<=x&& x<=45)
20     visible=imrotate(P,x);
21     imshow(visible);
22 else if (45<x&& x<=135)
23     visible=imrotate(L,90-x);
24     imshow(visible);
25 else if (135<x&& x<=225)
26     visible=imrotate(P,180-x);
27     imshow(visible);
28 else if (225<x&& x<=315)
29     visible=imrotate(L,270-x);
30     imshow(visible);
31 else if (315<x&& x<360)
32     visible=imrotate(P,360-x);
33     imshow(visible);
34 end
35 end
36 end
37 end
38 end
39
40 end
41
```

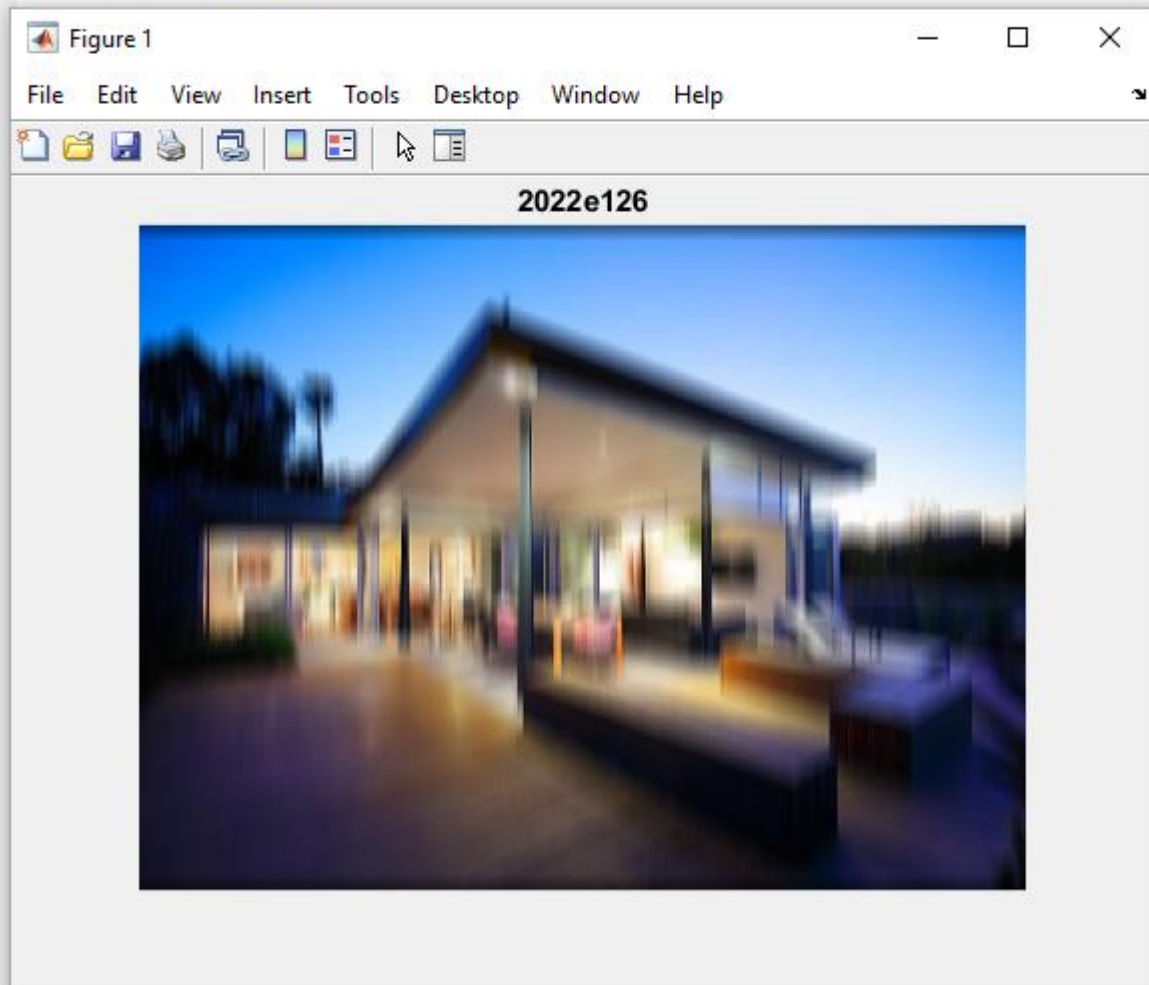
(e)

```
1 %Q2e_2022e126
2
3 - P1 = phoneRotate(1841);
4 - P2 = phoneRotate(414);
5 - P3 = phoneRotate(-581);
6 - P4 = phoneRotate(-776);
7
8 - subplot(2,2,1);
9 - imshow(P1);
10
11 - subplot(2,2,2);
12 - imshow(P2);
13
14 - subplot(2,2,3);
15 - imshow(P3);
16
17 - subplot(2,2,4);
18 - imshow(P4);
```



03.

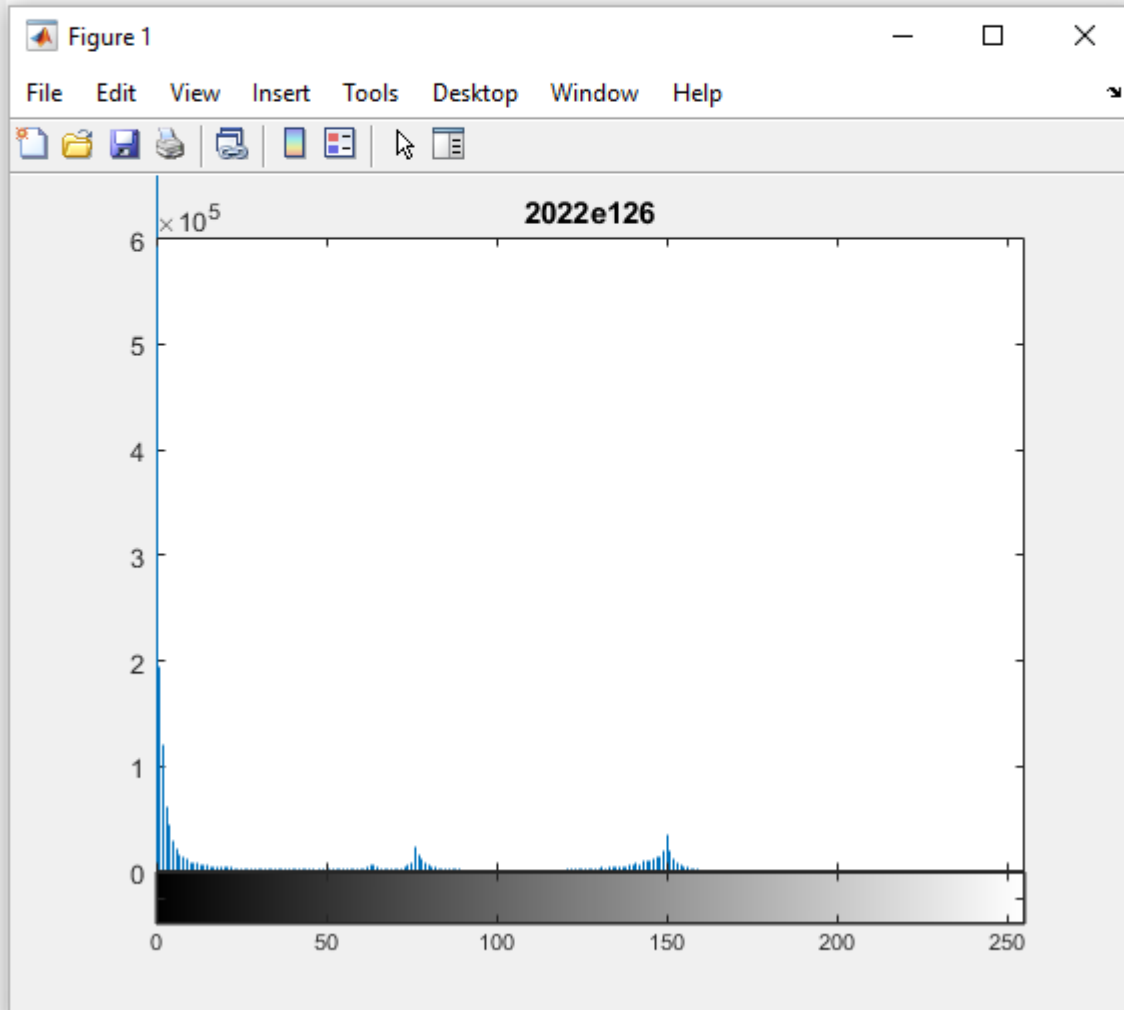
```
1 - k = ones(21,21);  
2 - k = k/sum(k);  
3 - M= imread('Figure 12.jpg');  
4 - blur=imfilter(M,k);  
5 - imshow(blur);  
6 - title ('2022e126')  
7
```



04.

(a),(b),(c)

```
1 - A= imread('Figure 3.jpg');  
2 - BW=rgb2gray (A);  
3  
4  
5 - imhist(BW);  
6 - T=255* graythresh (BW);  
7 - title ('2022e126')  
8
```





(d)

```
10 - B=BW>T;  
11 - imshow(B);  
12 - title ('2022E126')  
13
```

