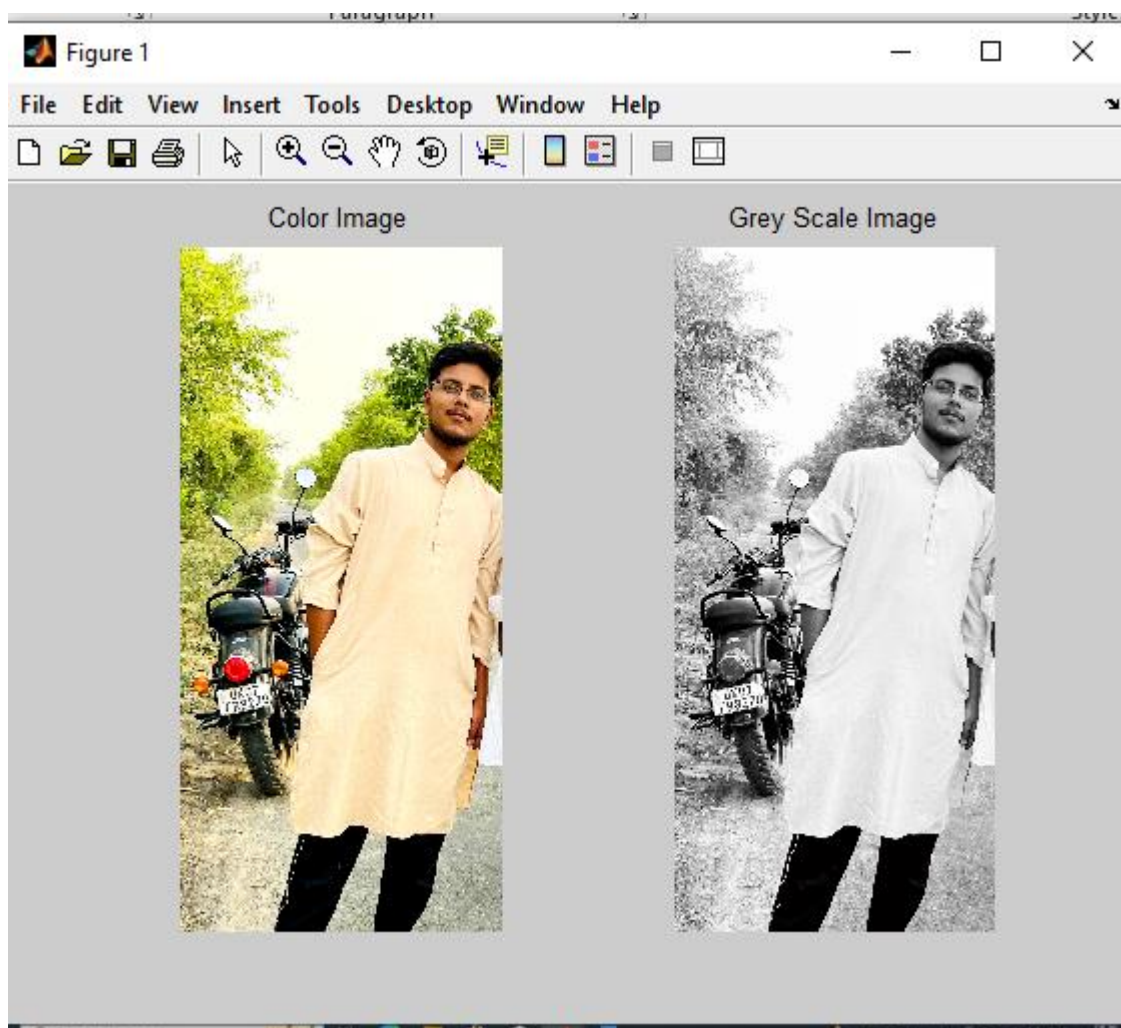

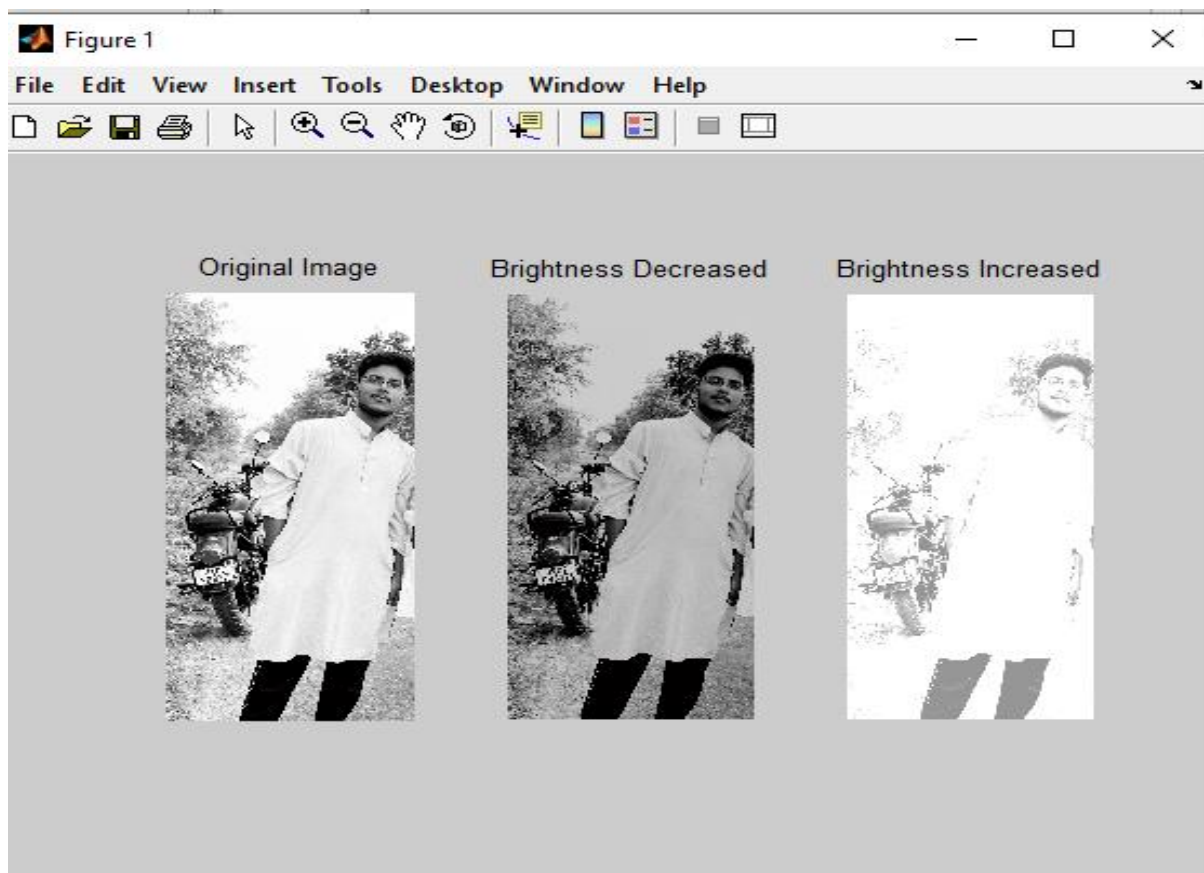
































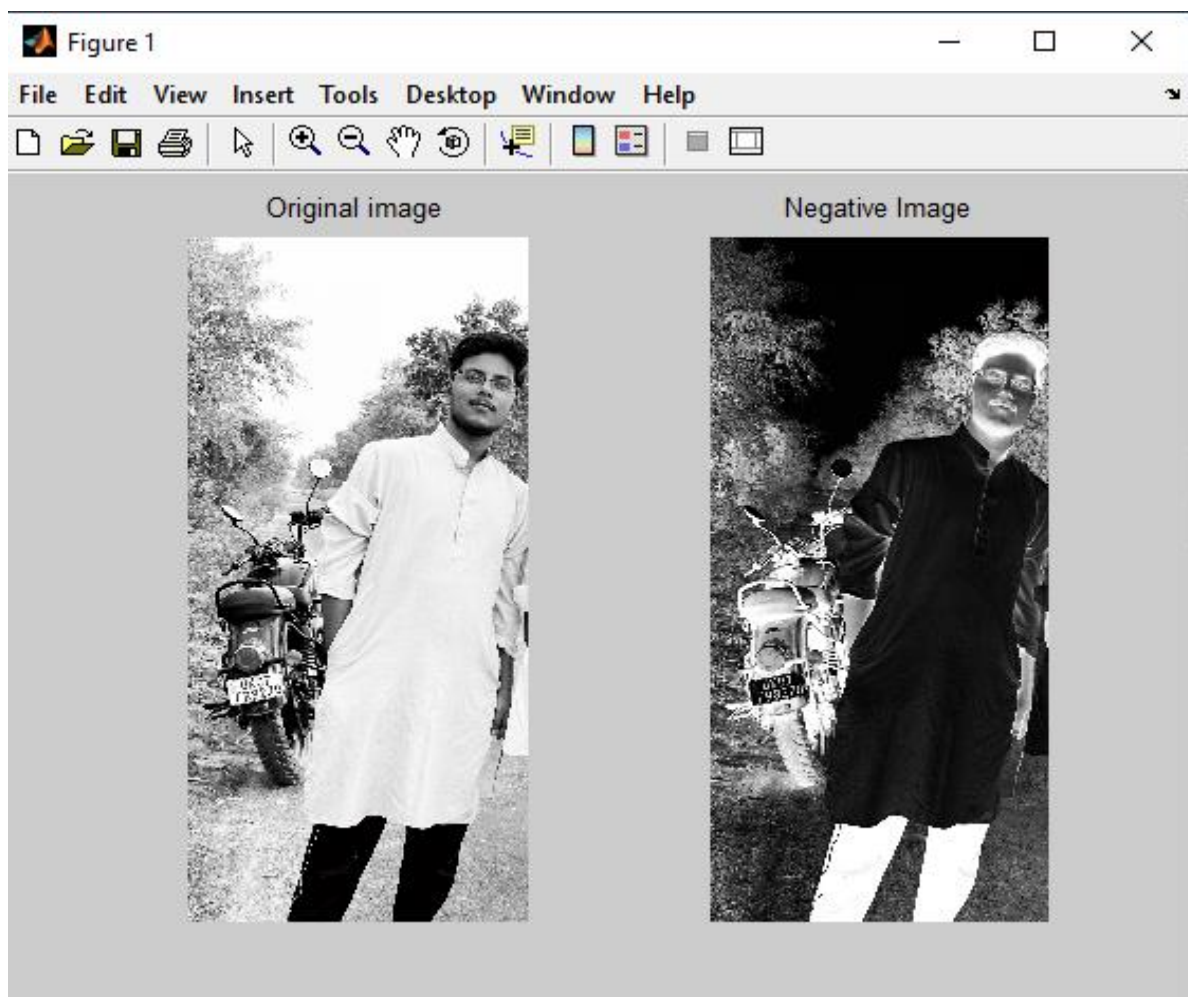
```
Editor - D:\RS\PT1\Untitled.m
File Edit Text Go Cell Tools Debug Desktop Window Help
1 - clc;
2 - clear all;
3 - close all;
4
5 % - Reading the image
6 a = imread('D:\RS\PT1\1671458913727.jpg')
7
8 % - Converting color image to gray scale image
9 b = rgb2gray(a)
10
11
12 % Creating the output window
13 figure();
14
15
16 % Dividing the output window into multiple section
17 subplot(1,2,1);
18
19 %Display the image
20 imshow(a)
21
22 %Giving the title to the image
23 title('Color Image');
24
25
26 subplot(1,2,2);
27 imshow(b);
28 title('Grey Scale Image');
```



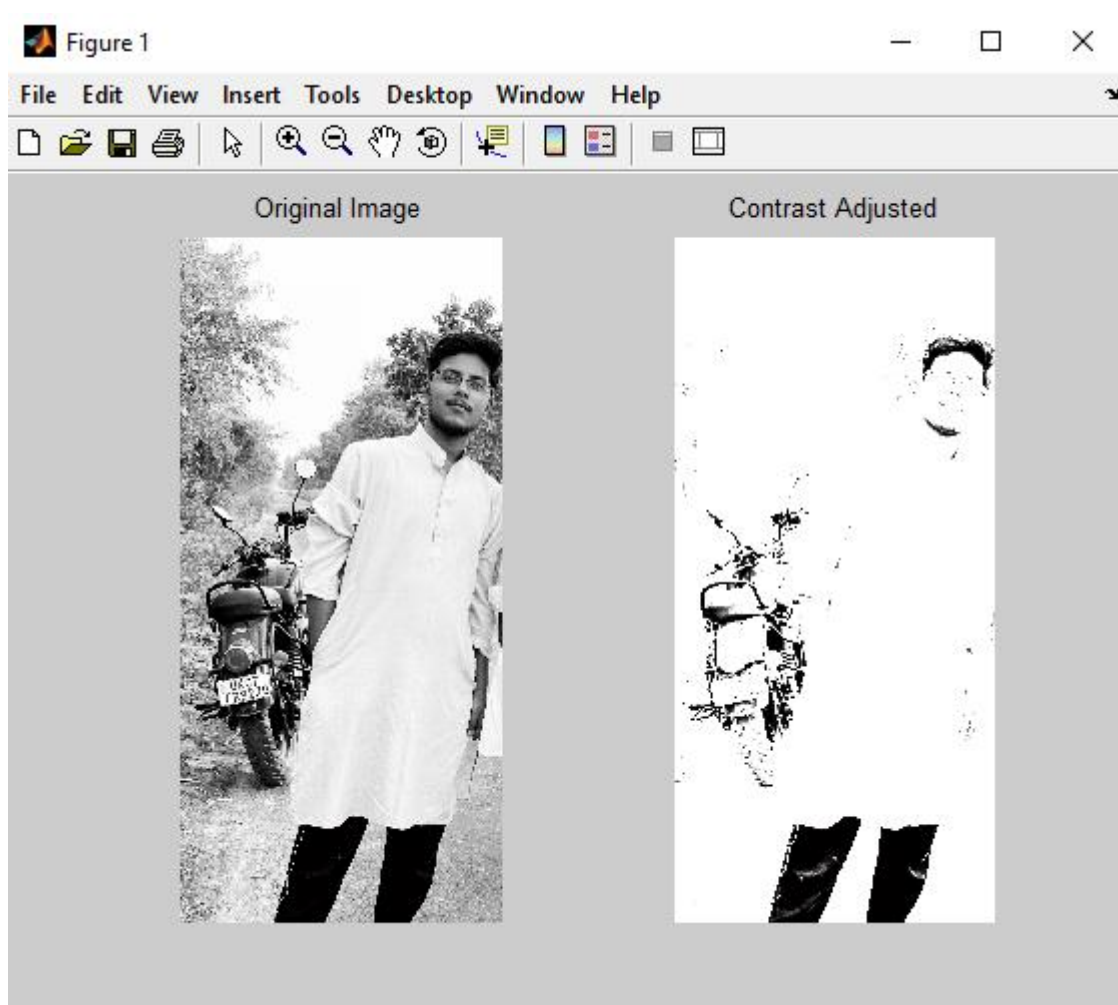
```
File Edit Text Go Cell Tools Debug Desktop Window Help
 Stack: Base
1 - clc;
2 - clear all;
3 - close all;
4
5 - img=imread('D:\RS\P1\1671458913727.jpg');
6 - img1=rgb2gray(img);
7 - subplot(1,3,1);
8 - imshow(img1);
9 - title('Original Image');
10
11
12 - B=double(img1)-50;
13 - subplot(1,3,2);
14 - imshow(uint8(B));
15 - title('Brightness Decreased');
16
17 - B=double(img1)+150;
18 - subplot(1,3,3);
19 - imshow(uint8(B));
20 - title('Brightness Increased');
```



```
File Edit Text Go Cell Tools Debug Desktop Window Help
                              Stack: Base
1 - close all;
2 - clear all;
3 - clc;
4
5 - img1=imread('D:\RS\P1\1671458913727.jpg')
6 - img = rgb2gray(img1)
7 - subplot(1,2,1)
8 - imshow(img)
9 - title('Original image')
10 - [ row col ]=size(img)
11 - for x=1:row
12 -     for y=1:col
13 -         img_neg(x,y)=255-img(x,y);
14 -     end
15 - end
16 - img_ne=uint8(img_neg);
17 - subplot(1,2,2);
18 - imshow(img_ne);
19 - title('Negative Image')
```



```
Editor - D:\RS\P3\PRAC3A.m
File Edit Text Go Cell Tools Debug Desktop Window Help
[Icons] Stack: Base
1 - close all;
2 - clear all;
3 - clc;
4 - img2=imread('D:\RS\P1\1671458913727.jpg')
5 - img1 = rgb2gray(img2);
6 - subplot(1,2,1);
7 - imshow(img1);
8 - imshow(img1);
9 - title('Original Image');
10 - B=double(img1)*(10);
11 - subplot(1,2,2);
12 - imshow(uint8(B))
13 - title('Contrast Adjusted')
```



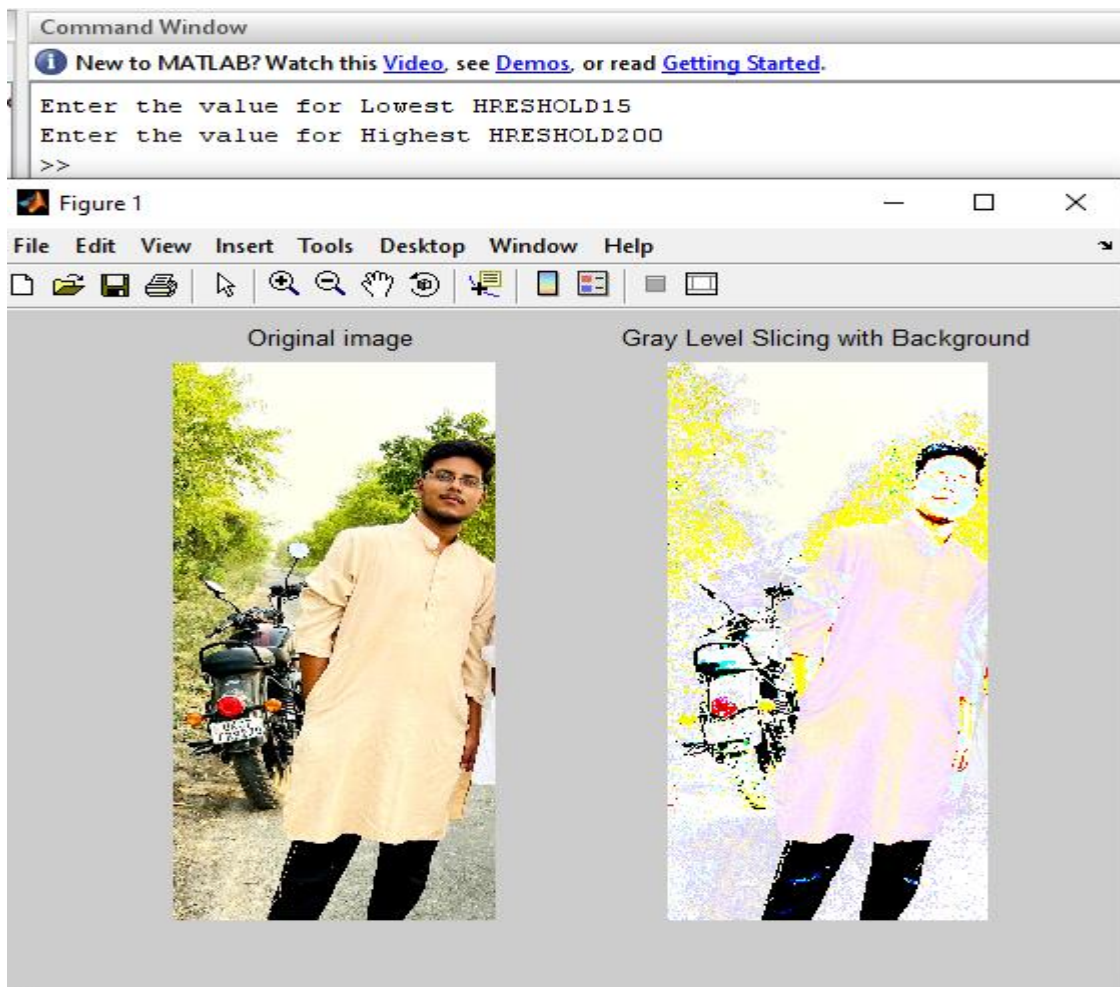
```
Editor - D:\RS\P3\PRAC3B.m
File Edit Text Go Cell Tools Debug Desktop Window Help
[Icons] [Stack: Base]
[Icons] [1.0] [1.1] [Icons]
1 - clc;
2 - clear all;
3 - close all;
4 - p = imread('D:\RS\P1\1671458913727.jpg');
5 - p1=rgb2gray(p);
6 - subplot(1,2,1)
7 - imshow(p1);
8 - title('original Image')
9 - T=input('Enter the value fot THRESHOLD:|');
10 - [row col ]= size(p1);
11
12 - for x=1:row
13 -     for y=1:col
14 -         if((p1 (x,y)<=T) )
15 -             p1 (x,y)=0;
16 -         else
17 -             p1 (x,y)=255;
18 -         end;
19 -     end;
20 - end;
21 - subplot(1,2,2)
22 - imshow(p1);
23 - title('Threshold image')
```




```

Editor - D:\RS\P3\PRAC3C.m
File Edit Text Go Cell Tools Debug Desktop Window Help
[Icons] Stack: Base
1  % Prac 3C:- gray scale slicing with background
2  -
3  clear all;
4  close all;
5  img = imread('D:\RS\P1\1671458913727.jpg');
6  subplot(1,2,1);
7  imshow(img);
8  title('Original image');
9  j= double(img);
10 [ row col ]=size(j);
11 T1=input('Enter the value for Lowest HRESHOLD');
12 T2=input('Enter the value for Highest HRESHOLD');
13 for x=1:1:row
14     for y=1:1:col
15         if (j(x,y)>T1 && (j(x,y)<T2))
16             j(x,y)=255;
17         else
18             j(x,y)=img(x,y);
19         end
20     end
21 end
22 subplot(1,2,2);
23 imshow(uint8(j));
24 title('Gray Level Slicing with Background')

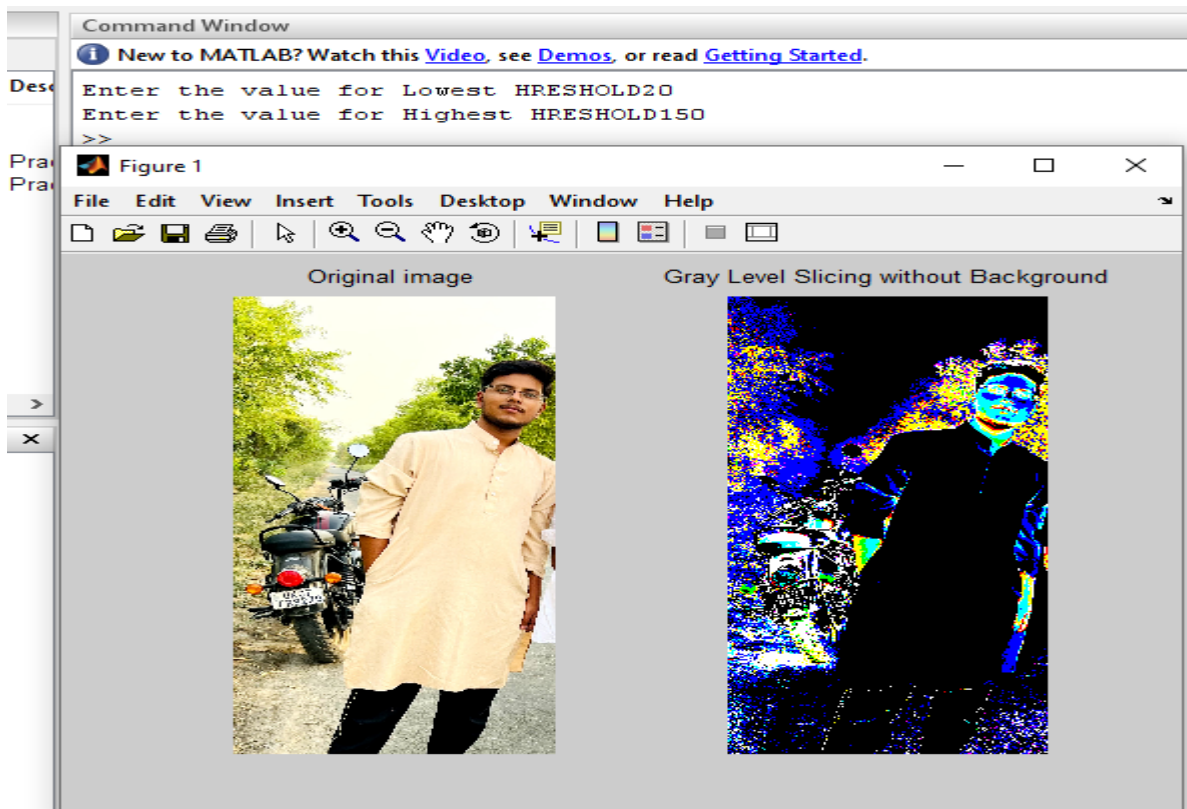
```



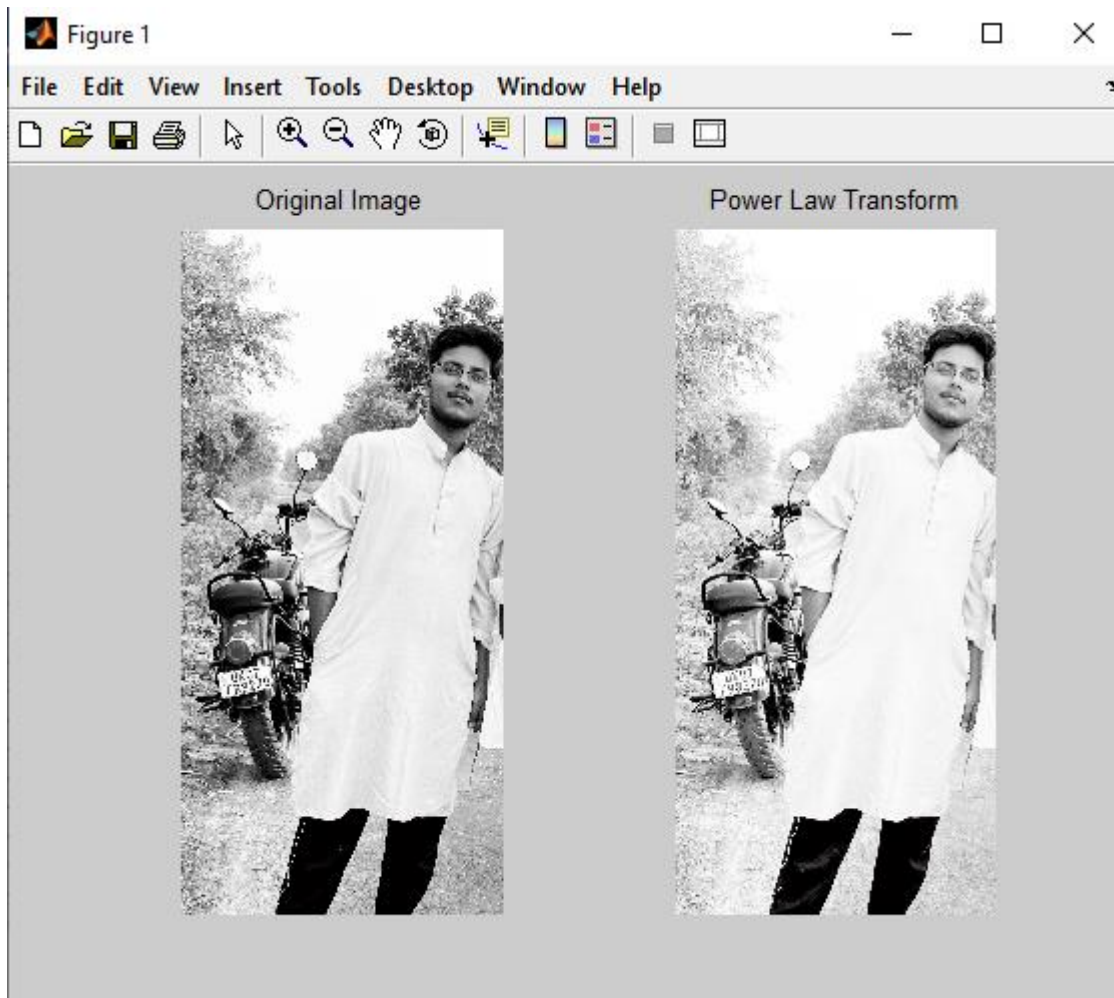
```

Editor - D:\RS\P3\PRAC3D.m
File Edit Text Go Cell Tools Debug Desktop Window Help
[Icons] Stack: Base
1 % Prac 3D:- gray scale slicing without background
2 -   clc;
3 -   clear all;
4 -   close all;
5 -   img = imread('D:\RS\P1\1671458913727.jpg');
6 -   subplot(1,2,1);
7 -   imshow(img);
8 -   title('Original image');
9 -   j= double(img);
10 -  [ row col ]=size(j);
11 -  T1=input('Enter the value for Lowest HRESHOLD');
12 -  T2=input('Enter the value for Highest HRESHOLD');
13 -  for x=1:1:row
14 -      for y=1:1:col
15 -          if (j(x,y)>T1 && (j(x,y)<T2))
16 -              j(x,y)=255;
17 -          else
18 -              j(x,y)=0;
19 -          end
20 -      end
21 -  end
22 -  subplot(1,2,2);
23 -  imshow(uint8(j));
24 -  title('Gray Level Slicing without Background')

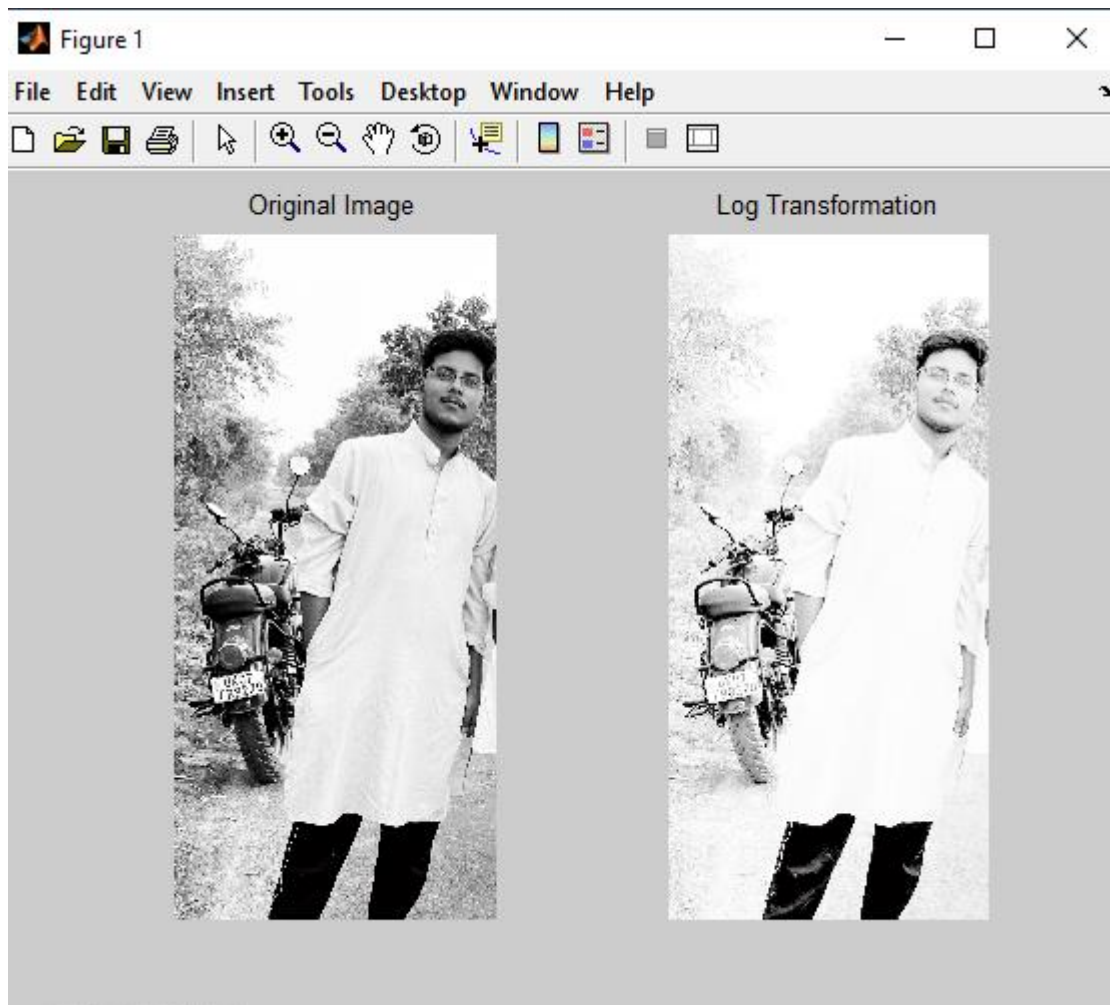
```



```
Editor - D:\RS\P4\PRAC4.m*
File Edit Text Go Cell Tools Debug Desktop Window Help
[Icons] Stack: Base
1 %Practical 4A-Power Law Transformation
2 clc;
3 clear all;
4 close all;
5 img1 = imread('D:\RS\P1\1671458913727.jpg');
6 img = rgb2gray(img1);
7 subplot(1,2,1);
8 imshow(img);
9 title('Original Image');
10 [row col] = size(img);
11 c=1;
12 img=double(img);
13 gamma=0.5;
14 for x=1:row
15     for y=1:col
16         j(x,y)=c*(img(x,y)^gamma);
17     end;
18 end;
19 subplot(1,2,2);
20 imshow(j,[])
21 title('Power Law Transform');
```




```
Editor - D:\RS\P4\PRAC4B.m
File Edit Text Go Cell Tools Debug Desktop Window Help
[Icons] Stack: Base
1 %Practical 4B- Log Transformation
2 clc;
3 clear all;
4 close all;
5 img1 = imread('D:\RS\P1\1671458913727.jpg');
6 img = rgb2gray(img1);
7 subplot(1,2,1)
8 imshow(img);
9 title('Original Image');
10 L=255;
11 c=L/log10(1+L);
12 d= c*(log10 (1+double(img)));
13 subplot(1,2,2)
14 imshow(uint8(d));
15 title('Log Transformation');
```



```
Editor - D:\RS\P5\PRAC5.m
File Edit Text Go Cell Tools Debug Desktop Window Help
[Icons] Stack: Base
1 %Practical 5-Histogram
2 clc;
3 clear all;
4 close all;
5 a = imread('D:\RS\P1\1671458913727.jpg');
6 a1 = double(a);
7 a2 = rgb2gray(uint8(a1));
8 [row col] = size(a2);
9 h = zeros(1,256);
10 for m=1:1:row
11     for n=1:1:col
12         t = a2(m,n);
13         h(t+1) = h(t+1)+1;
14     end;
15 end
16 subplot(1,2,1);
17 imshow(uint8(a2))
18 title('Original Image');
19 subplot(1,2,2);
20 bar(h)
21 title('Histogram of Original Image');
```

