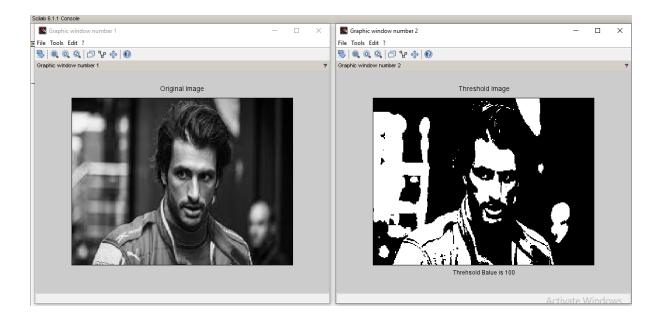
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## **Practical 7**

```
Aim: Threhsold Operation & Gray Level Slicing
Threshold Operation
Code:
clc;
close;
a = imread("C:\Users\admin\Pictures\download.jpg");
a = rgb2gray(a);
[m n] = size(a);
t = input("Enter threshold parameter: ");
for i = 1:m
  for j = 1:n
    if(a(i,j) < t)
       b(i,j)=0;
    else
       b(i,j) = 255;
    end
  end
end
figure(1);
imshow(a);
title("Original Image");
figure(2);
imshow(b);
title("Threshold Image");
xlabel(sprintf("Threhsold Balue is %g",t))
Output:
Enter threshold parameter: 50
```

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## **Gray Level Slicing**

## **Code:**

```
clc;
x = imread("C:\Users\admin\Pictures\download.jpg");
x = rgb2gray(x);
y = double(x);
[m,n] = size(y);
L = max(max(x));
a = round(L/2);
b = L;
for i = 1:m
  for j = 1:n
     if (y(i,j)>=a & y(i,j)<=b)
       z(i,j) = L;
     else
       z(i,j) = 0;
     end
  end
end
```

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z = uint8(z);
figure(1);
imshow(x);
title("Original Image");
figure(2);
imshow(z);
title("Gray Level Slicing without preserving Background")

## **Output:**

