

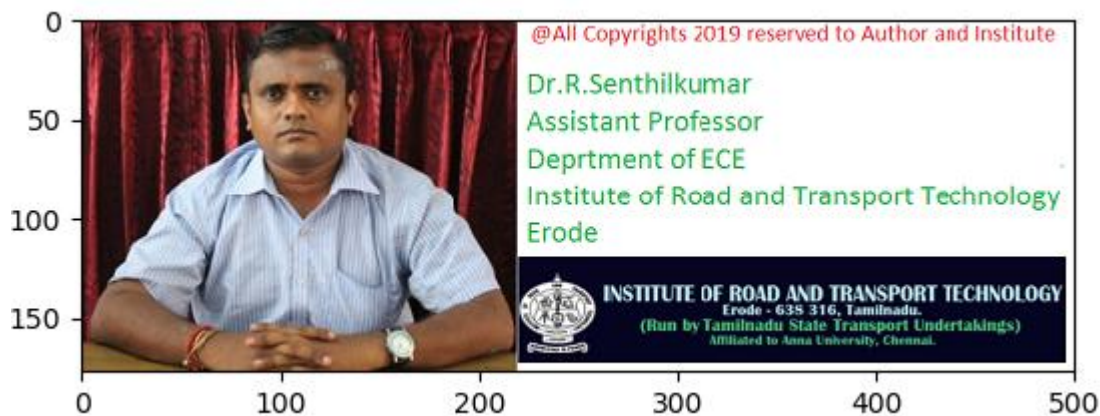
Work -Digital Image Processing Software Usage

Program 1:

Open the software contained root folder in command line as given below in screen shot:

```
C:\Users\Administrator\Desktop\Digital_Image_Processing_Python>DigitalImageProce
ssing.exe
Digital Image Processing Software
All copyrights are reserved to:
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Institute of Road and Transport Technology, Erode-638316, Tamilnadu, India.
Any technical queries contact mail Id: rsenthil_1976@yahoo.com
****WARNING****
Following these comments a copyright logo will display
In order to run Digital Image Processing Programs
The copyright logo .png file must be placed in the same directory of this applic
ation
Close the copyright logo in order to proceed further
```

Copyright logo



After the closing above figure, the following commands will be displayed in the command window:

```

if i =0 Image read and display
if i =1 Pseudo color Image
if i =2 Pseudo color Image color bar
if i =3 Image Resizing
if i =4 Image Interpolation
if i =5 RGB to Gray Image
if i =6 Histogram Plot
if i =7 Cropping a Portion of an Image
if i =8 Shape of an Image and gray scale conversion
if i =9 Image transform
if i =10 Image Filtering
if i=11 Image Details and Changing Image File Format
Enter the Digital Image Processing program you want to run=
0
Image and Display

```

Result: Image and Display

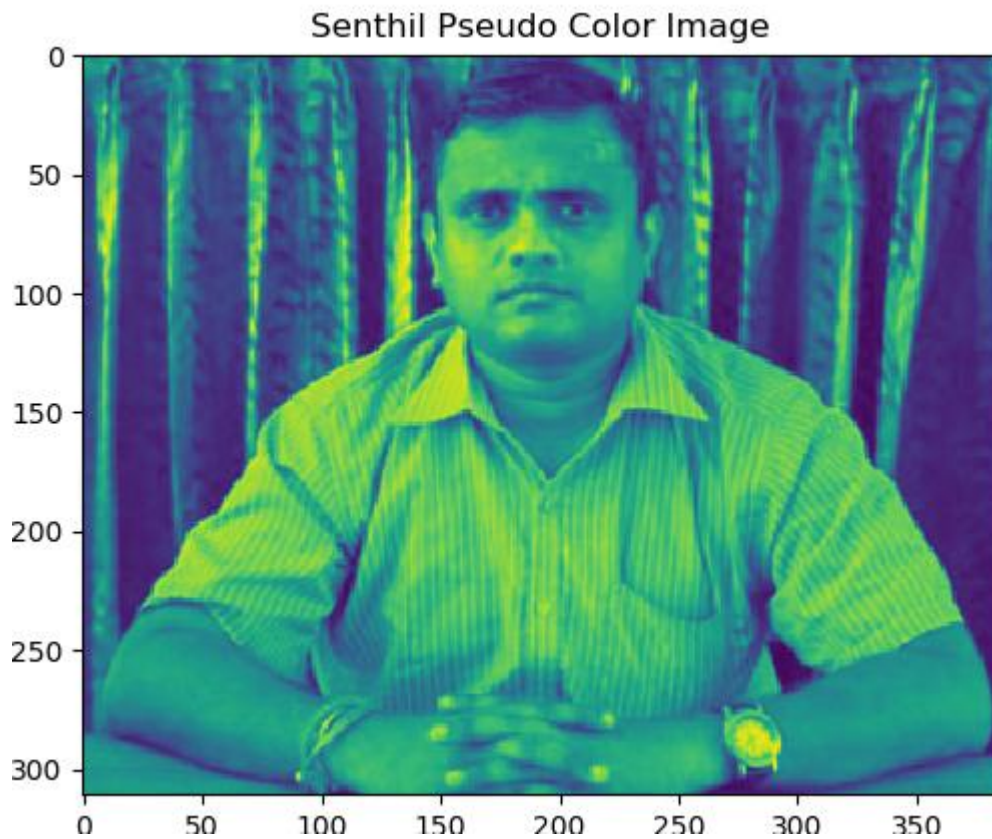


Program 2: Pseudo Color Image

2

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Program 3: Pseudo color Image color bar



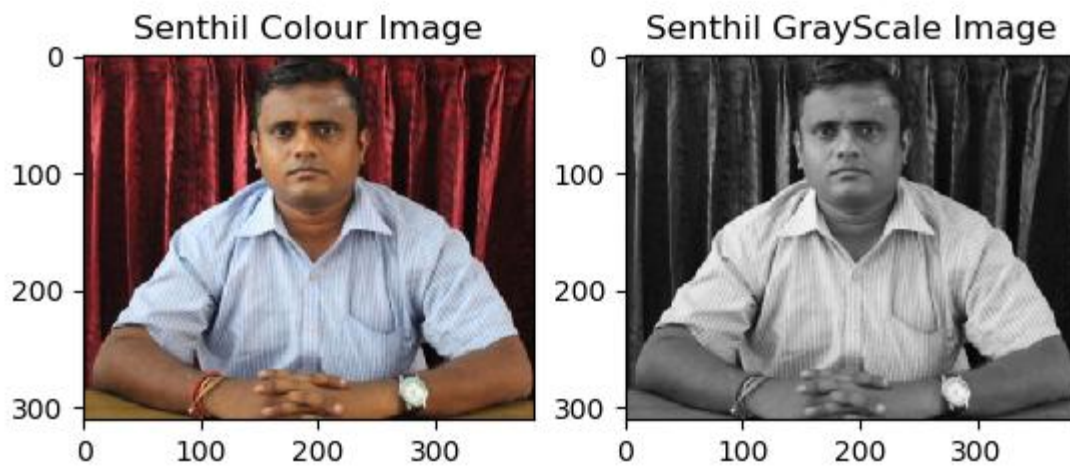
Program 4: Image Resizing



Program 5: Image Interpolation

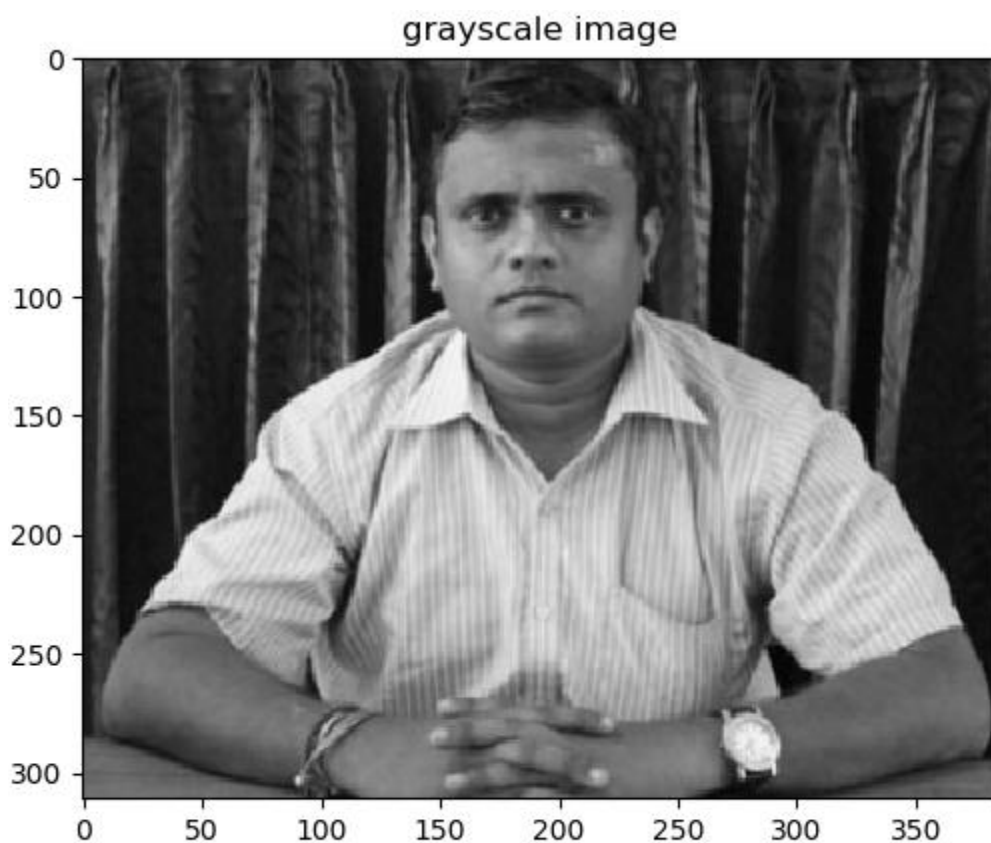


Program 6: RGB to Gray Image

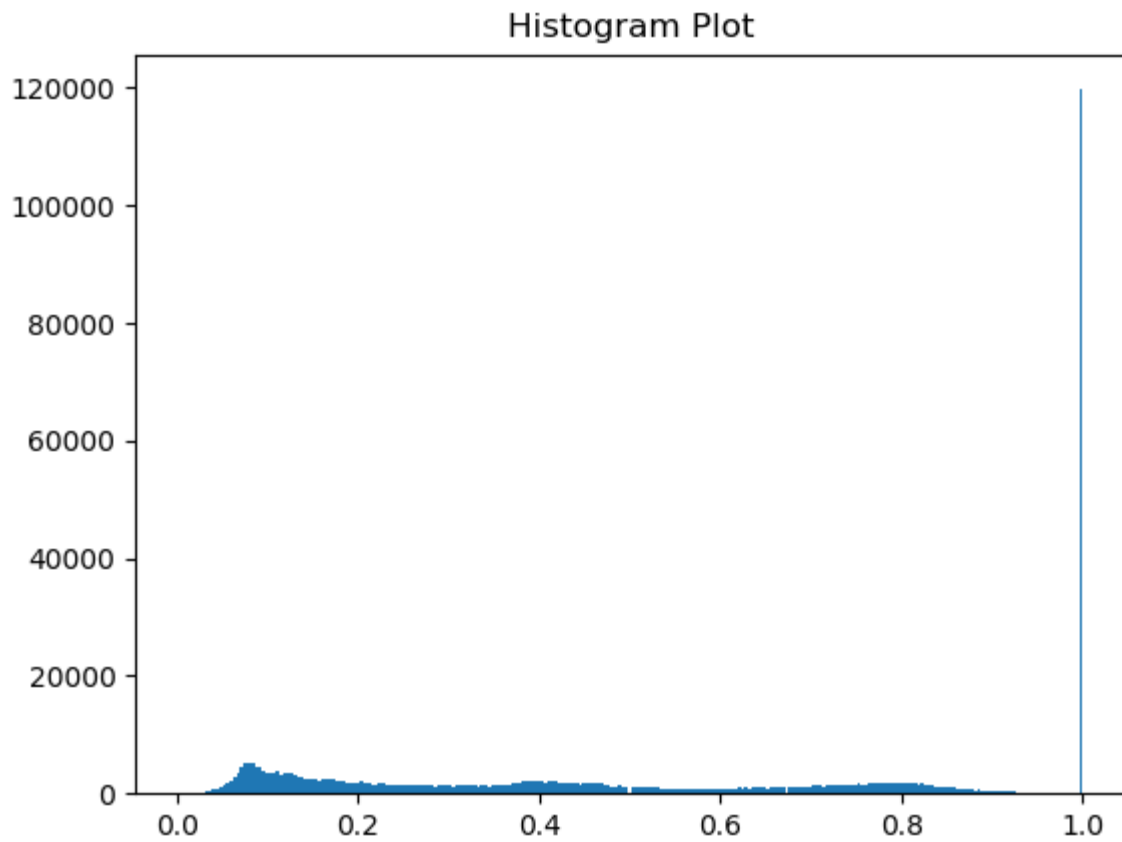


Program 7: Histogram Plot

Result 1:

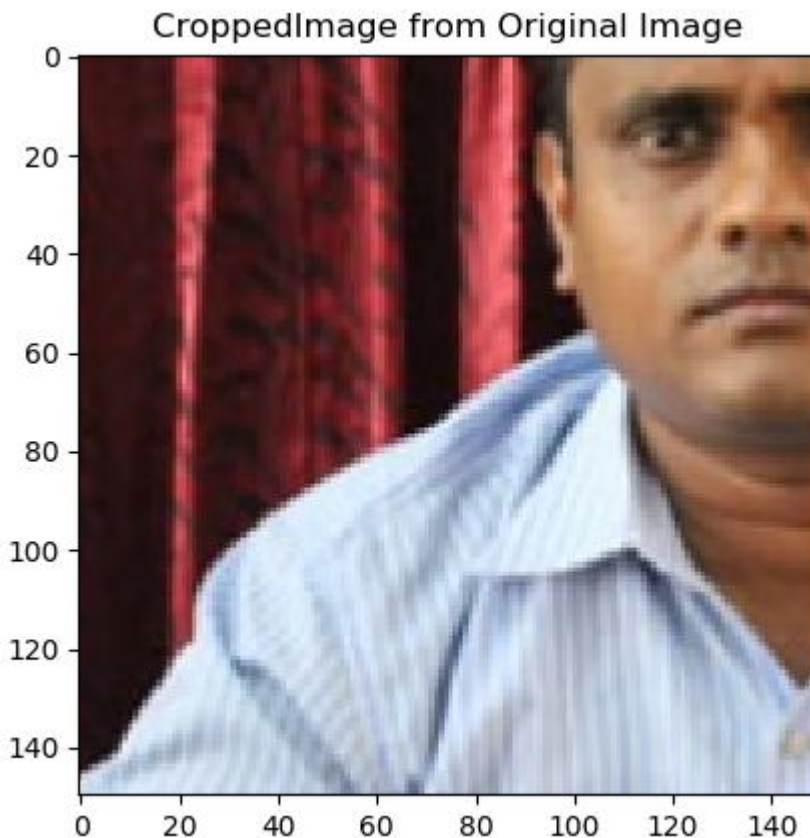


Result 2:



Program 8: Cropping a Portion of and Image

Result:



Program 9: Shape of an Image and Gray Scale Conversion

Result 1:

```
Enter the Digital Image Processing program you want to run=
8
1.To print shape of an Image
2.To display RED, GREEN, BLUE images separately
3.To reconstruct original image from R,G,B matrices
Colour Image Shape
(311, 385, 4)
Grayscale Image Shape
(311, 385, 4)
(311, 385, 4)
```

Result 2:

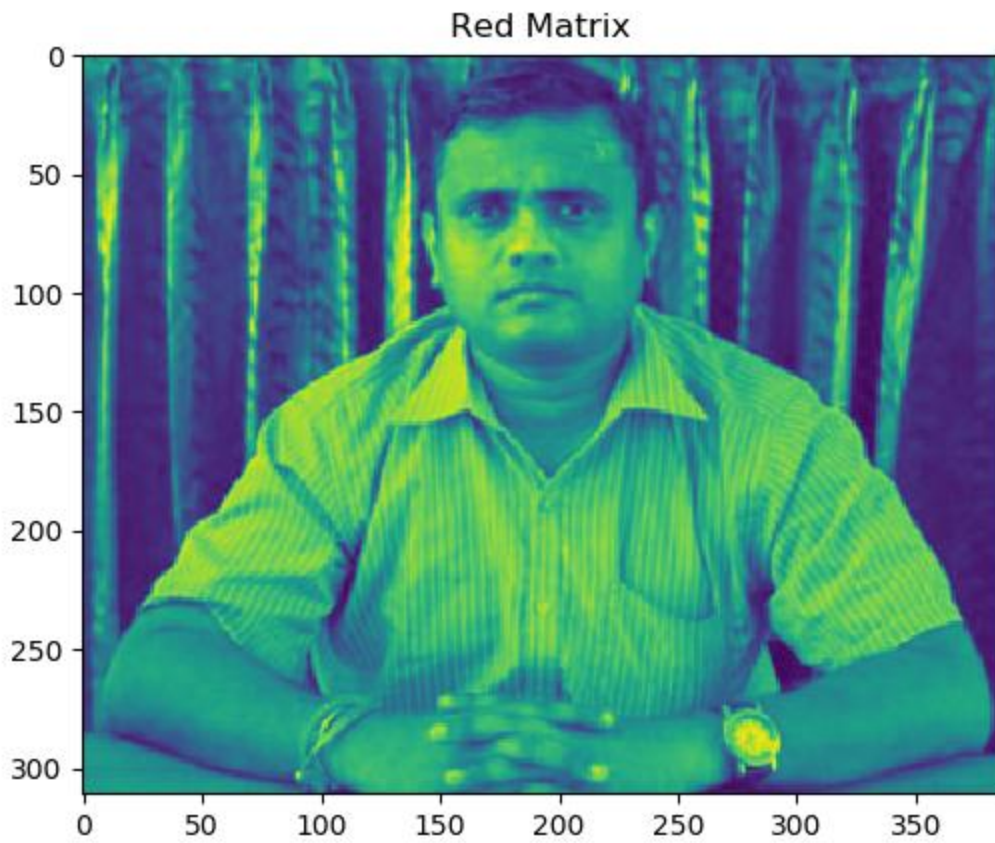
Original Colour Image



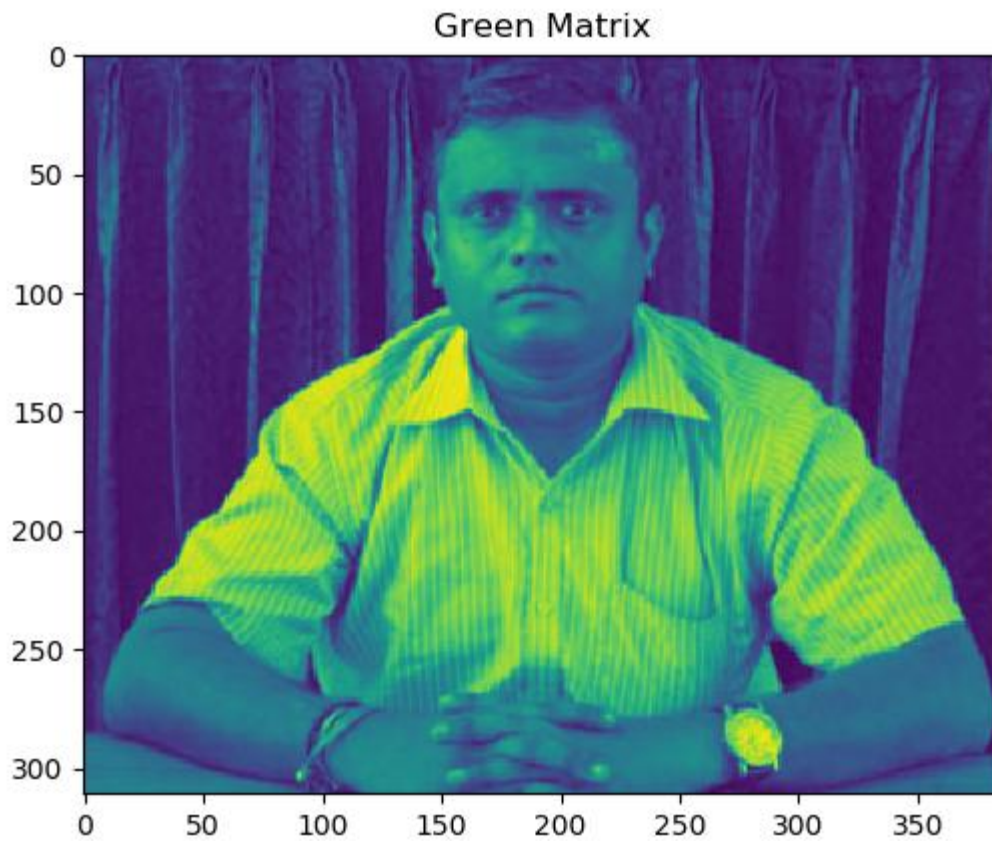
Result 3: GrayScale Image



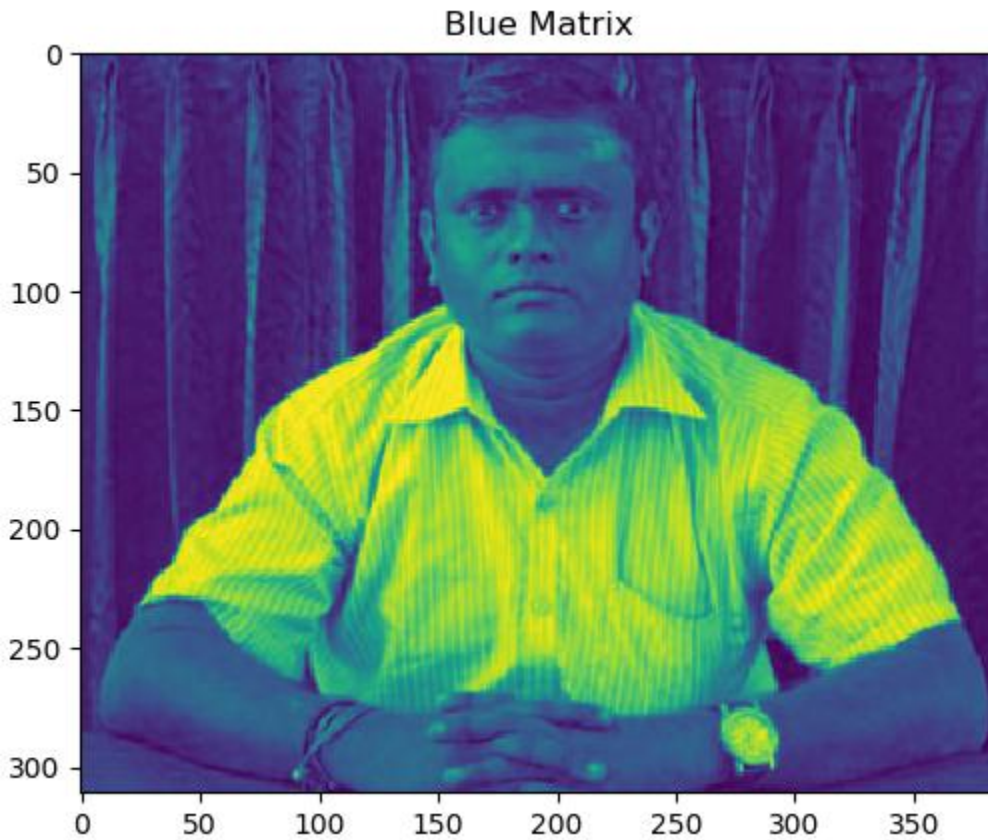
Result 4:



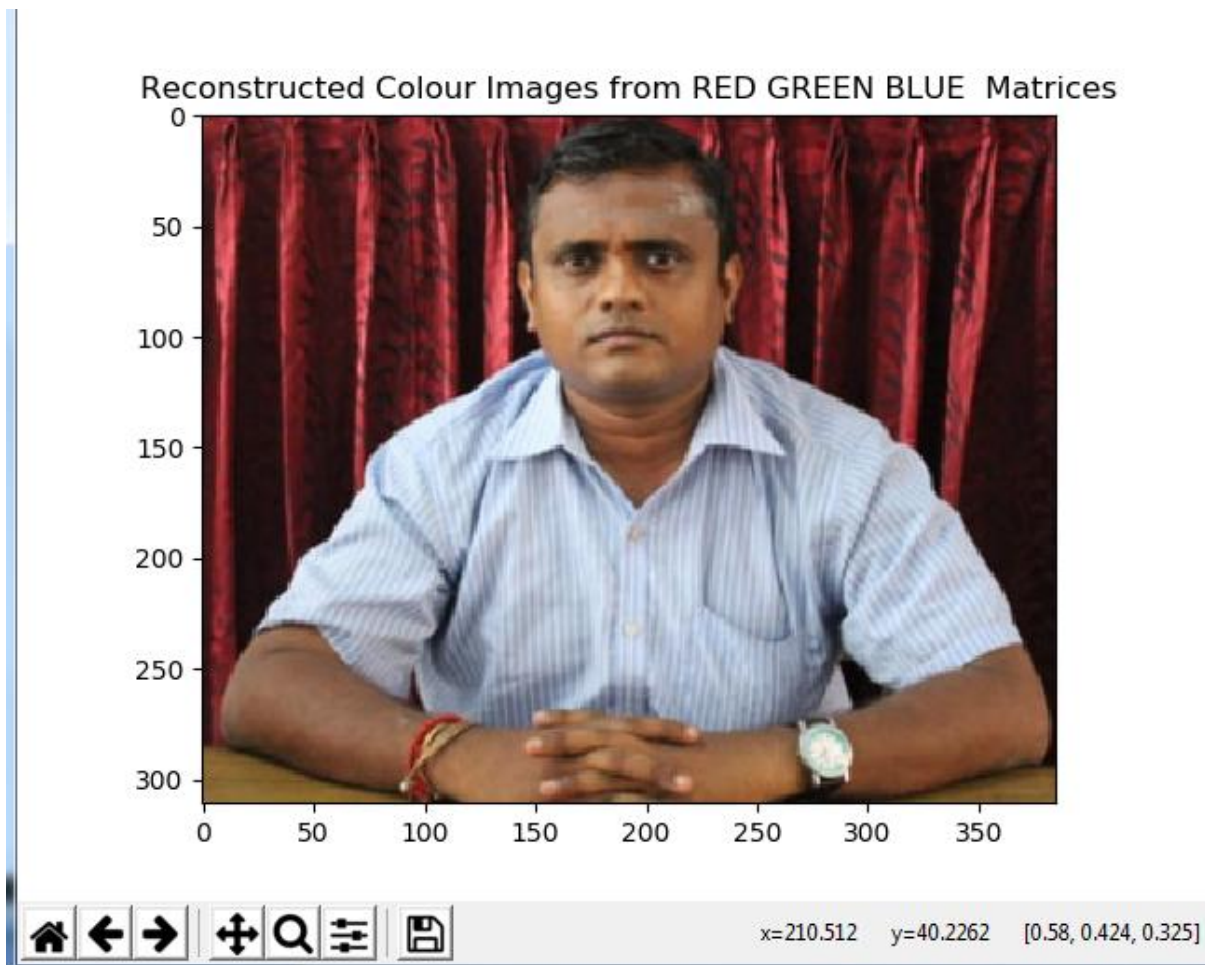
Result 5:



Result 6:



Result 7: Reconstructed colour Image From Red, Green, Blue matrices

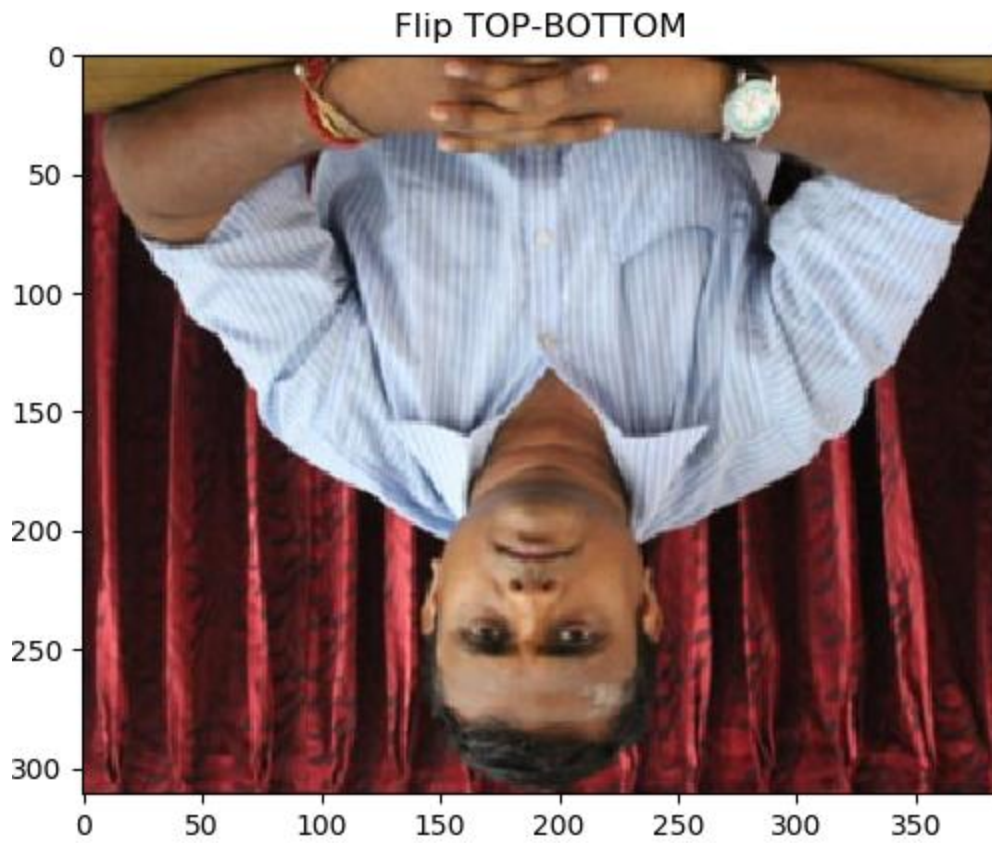


Program 10: Image Transform

Result 1:



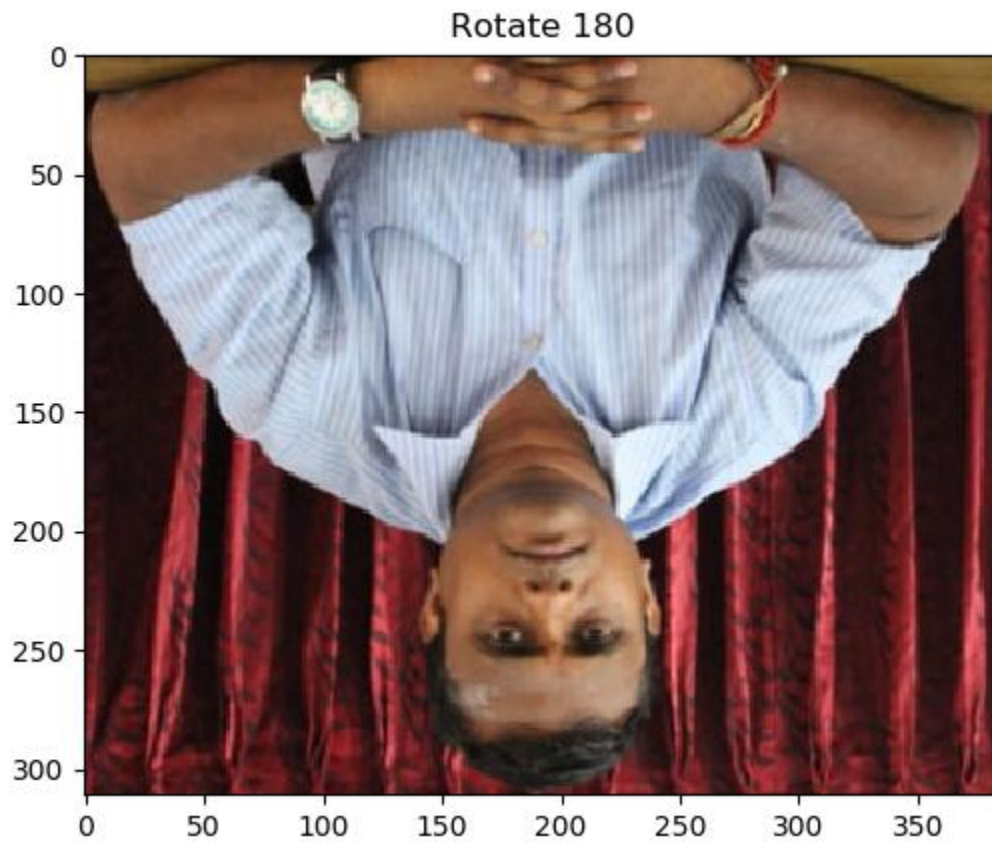
Result 2:



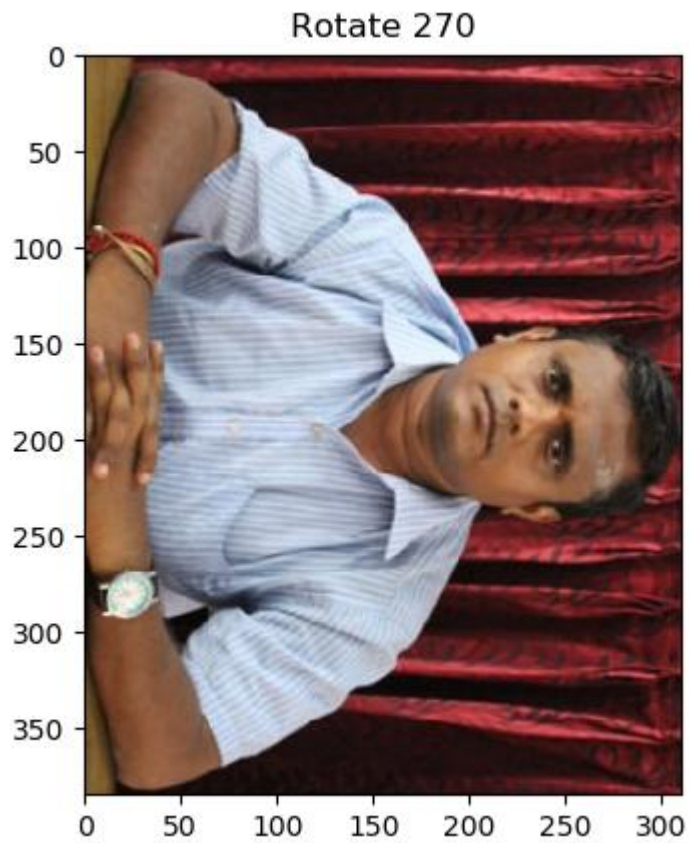
Result 3:



Result 4:



Result 5:



Program 11: Image Filtering

Result 1:



Result 2:



Result 3:



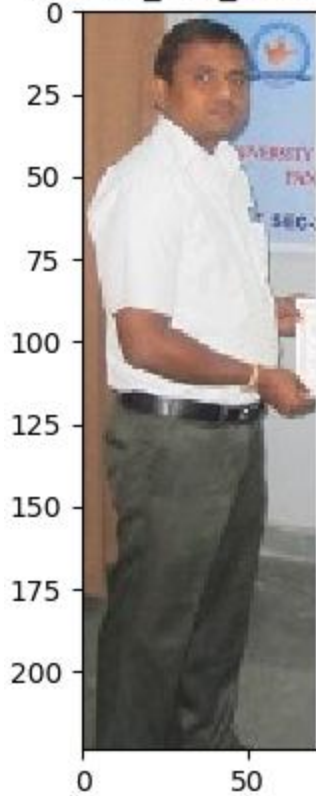
Result 4:



Program 12: Image Details and Changing Image File Format

```
Enter the Digital Image Processing program you want to run=  
11  
Image Details and Changing Image File Format  
image format PNG  
image mode RGBA  
image size (385, 311)  
image palette None  
Changing Image file format from png to jpg
```


Senthil_Full_Size.jpg



Converted Image file
format from .jpg to
.png



Senthil_Full_Size.png

