



Name: **Muhammad Khurram Rukhsar**

Department: RIME

CMS ID: 00000329472

Course: Computer Vision

Assignment No.: 2

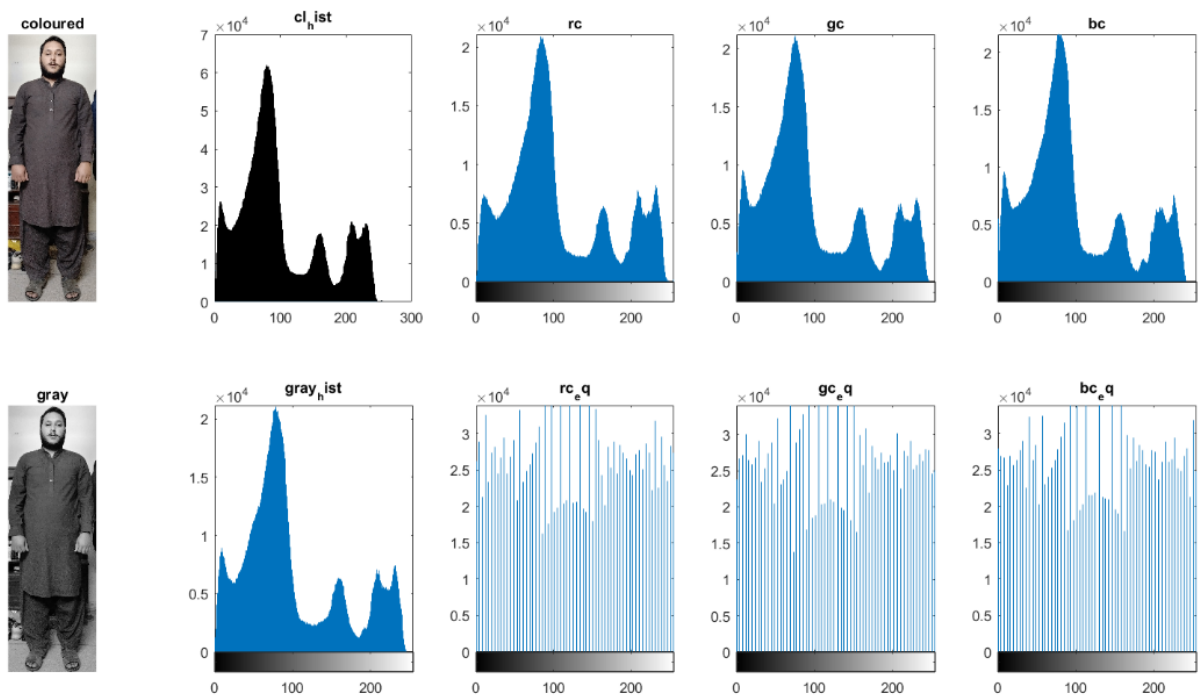
Submitted to: Dr Jawad Khan

# Part A

## Histogram Normalization:

Steps done for the following figure:

- Picture loaded.
- Histogram drawn for coloured image.
- Histograms drawn for all channels of the coloured image.
- RGB image converted to greyscale.
- All histograms normalized.



### **Brightness Adjustment:**

Steps done for the following figure:

- Brightness adjusted by multiplying the image with a number less than 1 but greater than 0. This in other words decreased the intensity of every pixel.



### **Contrast Adjustment:**

Steps done for the following figure:

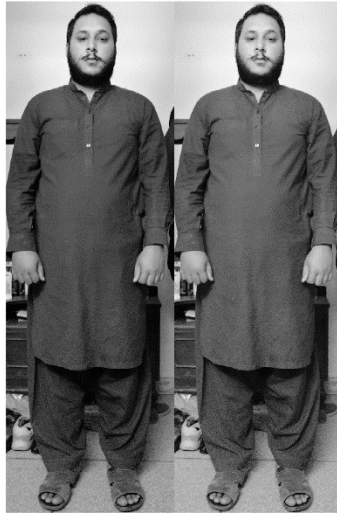
- Contrast adjusted by using 'imadjust' command on both coloured and greyscale image.



**Gamma Correction:**

Steps done for the following figure:

- Contrast adjusted by multiplying the image with a number less than 1 but greater than 0.



### **Negative Image:**

Steps done for the following figure:

- The negative of the original image was obtained by subtracting every pixel's value from 255.



## Part B

### Robot's Image:

Steps done for the following figure:

- The image was resized and then 'hold on' command was used to draw my own image in front of the robot.

