A blue and white logo

Description automatically generated

**COMSATS UNIVERSITY ISLAMABAD, ABBOTTABAD CAMPUS**

**Assignment # 01 - Digital Image Processing (CSC331)**

***Submitted by:***

Laiba Binte Tahir

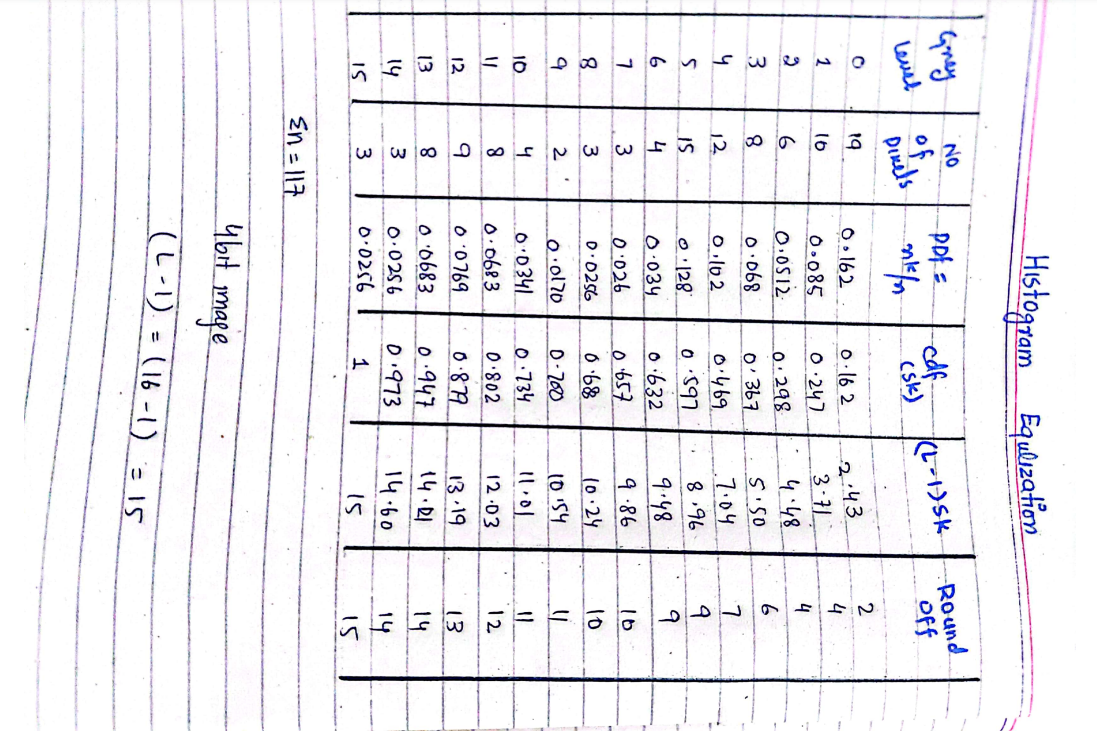
FA21-BSE-019-6A

***Submitted To:***

Dr. Mubashir Ahmad

**Histogram Equalization:**

**A:** Please calculate the histogram equalization of the following 13x9 grayscale 4-bit image with a graphical representation. Please follow all the steps in histogram equalization.

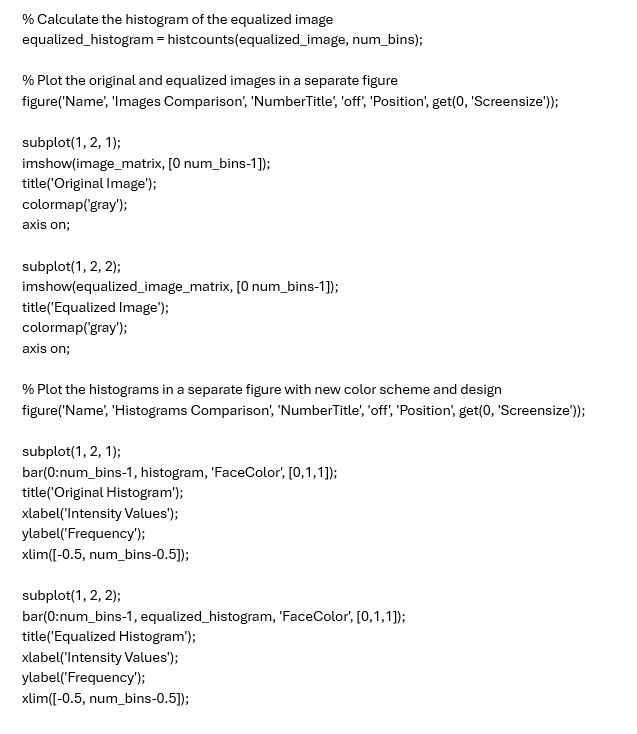


**B:** Implement the histogram equalization in MATLAB. Please write a code and generate the results of the above metrics with a graph that should show the histogram before and after HE.

**Code:**

**A screenshot of a computer

Description automatically generated**



**Original histogram (Before Equalization)**

A graph of blue bars

Description automatically generated

**Equalized histogram (After Equalization)**

A graph of blue bars

Description automatically generated

A black and white pixelated pattern

Description automatically generatedA black and white pixelated rectangular pattern

Description automatically generated