**Technical assessment**

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Coding

#include <opencv2/opencv.hpp>

#include <iostream>

using namespace cv;

using namespace std;

int main(int argc, char\*\* argv)

{

// Read the image file

Mat image = imread(“D:/new/hello.jpg“);

// Check for failure

if (image.empty())

{

cout << "Could not open or find the image" << endl;

cin.get(); //wait for any key press

return -1;

}

//change the color image to grayscale image

cvtColor(image, image, COLOR\_BGR2GRAY);

//equalize the histogram

Mat hist\_equalized\_image;

equalizeHist(image, hist\_equalized\_image);

//Define names of windows

String windowNameOfOriginalImage = "Original Image";

String windowNameOfHistogramEqualized = "Histogram Equalized Image";

// Create windows with the above names

namedWindow(windowNameOfOriginalImage, WINDOW\_NORMAL);

namedWindow(windowNameOfHistogramEqualized, WINDOW\_NORMAL);

// Show images inside created windows.

imshow(windowNameOfOriginalImage, image);

imshow(windowNameOfHistogramEqualized, hist\_equalized\_image);

waitKey(0); // Wait for any keystroke in one of the windows

destroyAllWindows(); //Destroy all open windows

return 0;

}