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| Assignment 1 | |
| Due Date | February 11, 2019 |
| Date of Submission | February 9, 2019 |

# Overview

Assignment 1 consists of two (2) problems outlined in the following sections. A single Visual Studio solution containing two (2) C# projects was created to solve both problems.

# Problem 1

## Summary

Problem 1 provided introductory lessons to the C# programming language and image processing. A Visual Studio C# project was constructed from the example project, ImageProcessing\_2010.

## Input

## Output

# Problem 2

## Summary

Problem 2 required implementing the histogram equalization algorithm outlined in Wikipedia (<https://en.wikipedia.org/wiki/Histogram_equalization>) using C#. A Visual Studio C# Windows Forms project was created and consists of a single Windows Form, the entry point (Program.cs), a Histrogram class, and a Histogram Equalizer class. The Form allows the user to browse for a bitmap and perform Histogram Equalization on the selected bitmap.

## Input

Two (2) images available on the Wikipedia site were used for testing.

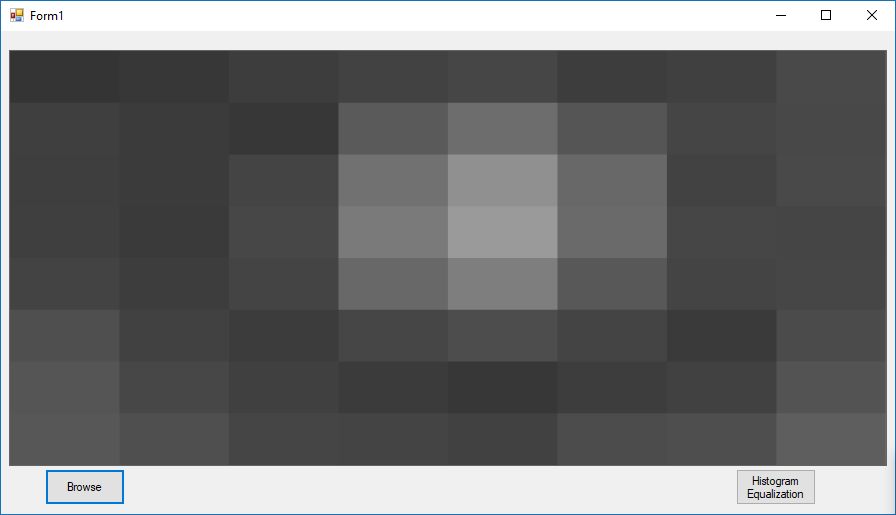


Figure - Example 1 Original

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Figure - Example 2 Original

## Output

The results of Histogram Equalization are shown below.

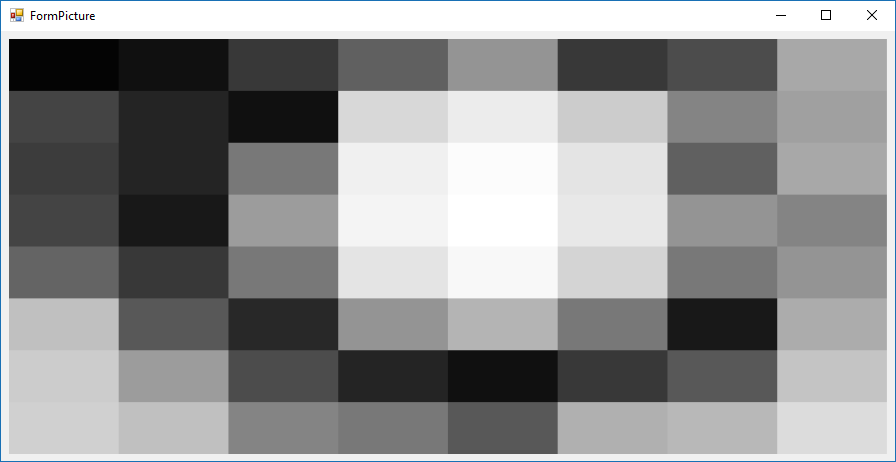


Figure - Example 1 after Histogram Equalization



Figure - Example 2 after Histogram Equalization