**Assignment 1**



**Spring 2025**

**CSE-408 Digital Image Processing**

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Class Section: **C**

Submitted to:

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Date:

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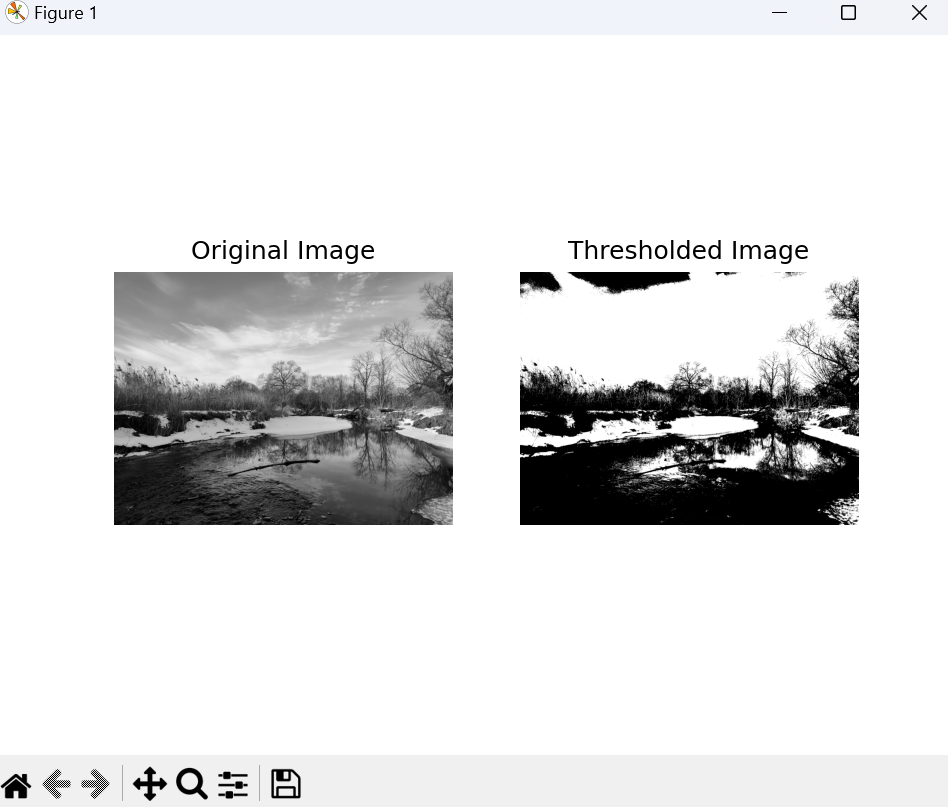
**University of Engineering and Technology, Peshawar**

**Activity 1:** Implement thresholding using MATLAB or Python. **Show the code and the output result** (original image and thresholded image).

**Code:**

**A computer screen shot of text

AI-generated content may be incorrect.  
Output:**

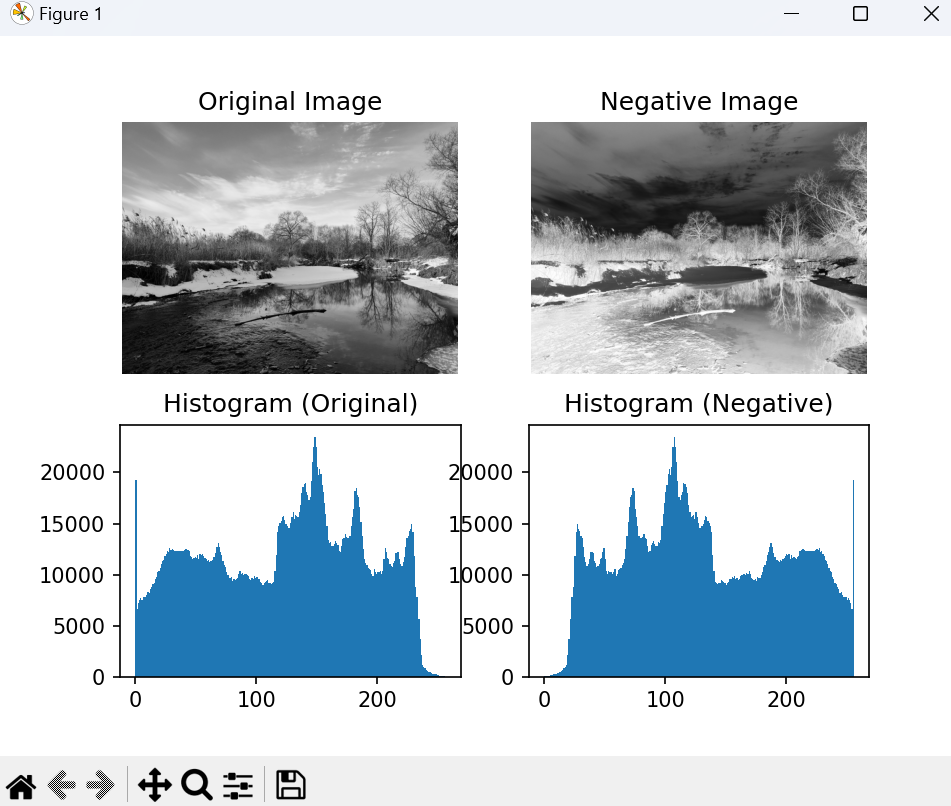
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**Activity 2:** Write a MATLAB/Python script to perform negative transformation of an input image. **Show the code and the output result** (original and negative image, along with histograms).

**Code:**

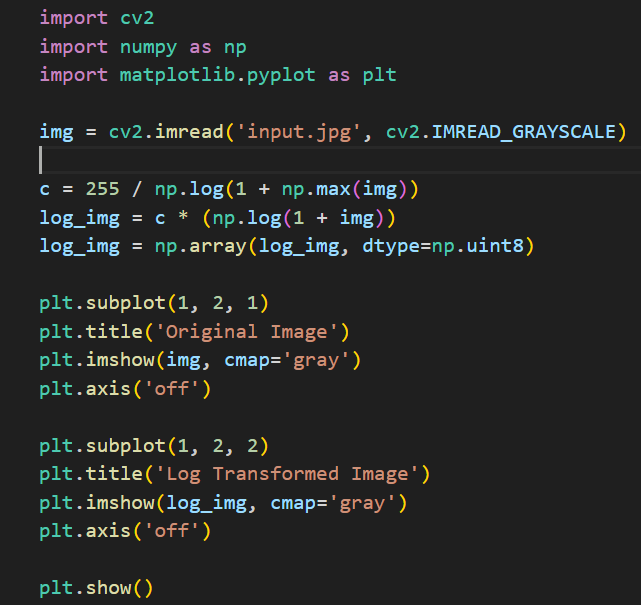
**A screen shot of a computer program

AI-generated content may be incorrect.  
Output:**



**Activity 3:** Implement a logarithmic transformation in MATLAB/Python. **Show the code and the output result** (original image and log-transformed image).

**Code:**

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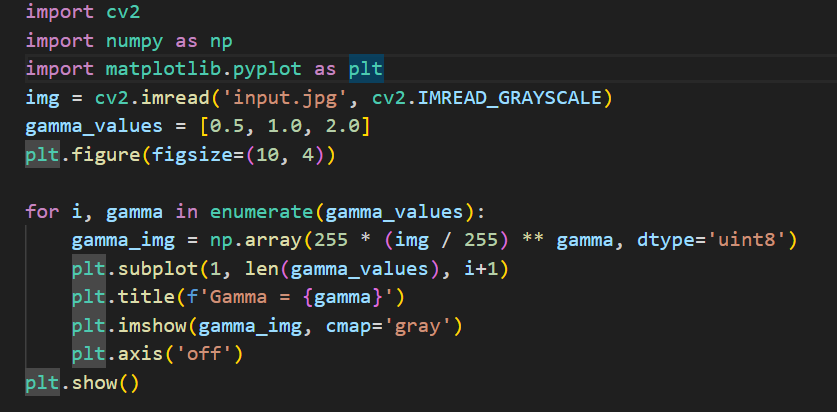
**Output:**

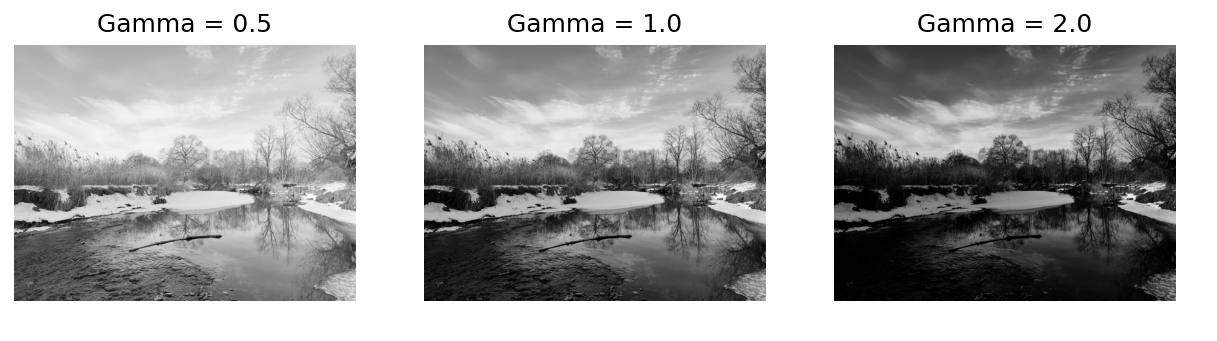
**A comparison of a river and a river

AI-generated content may be incorrect.**

**Activity 4:** Write MATLAB code to apply a power-law transformation on an image using different values of *γ*. **Show the code and the output result** (original image and transformed images for various γ values).

**Code:**

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Output:**

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