**Image Processing**

**(01CE0507)**

**Department of Computer Engineering**

**5th Semester**

**Lab Manual**

**(July-Dec 2022)**

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| 10 | Write a program to implement morphological operations. |  |  |

**Practical 1**

**Aim:** Study of matlab image processing toolkit and various commands on matlab.

* **Introduction to Various component of MATLAB Tool like editor, command window, workspace.**
* **Basic Syntax, Variables, Commands**
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**Practical 2**

**Aim:** Point processing in spatial domain

1. Negation of an image
2. Thresholding of an image
3. Contrast Stretching of an image
4. **Negation of an image**

**Code:**

**Output:**

1. **Thresholding of an image**

**Code:**

**Output:**

1. **Contrast Stretching of an image**

**Code:**

**Output:**

**Extra:**

1. Log Transformation
2. Power-Law Functions
3. Gray-level slicing
4. Bit-plane slicing
5. **Log Transformation**

**Code:**

**Output:**

1. **Power-Law Functions**

**Code:**

**Output:**

1. **Gray-level slicing**

**Code:**

**Output:**

1. **Bit-plane slicing**

**Code:**

**Output:**