**LAB-1**

1. Implement convolution and correlation operation to a particular image in spatial domain with the following kernels
2. Identity kernel
3. Edge detection kernel
4. Sharpening kernel
5. Box blurring kernel
6. Gaussian blurring kernel
7. Apply sampling concept to a particular image with the following interpolation techniques
8. Bilinear Interpolation
9. Bi cubic Interpolation
10. Nearest neighbour interpolation
11. Lanczosinterpolation

**Evaluation Rubrics**

R1- Originality & Creativity- 3M

R2 Execution & Correctness -3 M

R3 Depth of analysis- 2M

R4 Concept clarity-2M

**Submission Guidelines**

● Submit Pdf & ipynb file for the given question. The file name should be your

register number followed by program No: Example: 2347101\_P1.