**COMPUTER VISION -MAI 373**

**LAB-2**

Demonstrate frame extraction from the video and display the color components of the images.

Use OpenCV and Matplotlib in python and perform the following

1. Load the video using OpenCV (cv2.VideoCapture).
2. Extract frames at specific intervals.
3. Split each frame into its red, green, and blue components.
4. Display the original frame alongside its individual color channels.

**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.