

2. Perform basic video processing operations on the captured video

- Read captured video in python and display the video, in slow motion and in fast motion.

PROGRAM:

FAST MOTION

A screenshot of a Windows desktop environment. At the top, a code editor window titled 'EXP-2 FAST.py - C:\Users\reddy\OneDrive\Desktop\COMPUTER VISION\EXP-2 FAST.py (3.11.9)' is open. The editor shows a Python script for reading a video file in fast motion. The script includes comments, imports cv2, captures a video from a specific file path, and uses a while loop to read and display frames. A key press 'q' is used to break the loop. Below the code editor, the Windows taskbar is visible, showing the Start button, a search bar, and several application icons. The system tray on the right indicates a temperature of 31°C, 'Partly sunny' weather, and the time 2:26 PM on 2/13/2026.

```
EXP-2 FAST.py - C:\Users\reddy\OneDrive\Desktop\COMPUTER VISION\EXP-2 FAST.py (3.11.9)
File Edit Format Run Options Window Help
#FAST MOTION
import cv2

cap = cv2.VideoCapture(r"C:\Users\reddy\OneDrive\Desktop\COMPUTER VISION\WIN_20260209_13_38_13_Pro.mp4")

while True:
    ret, frame = cap.read()
    if not ret:
        break

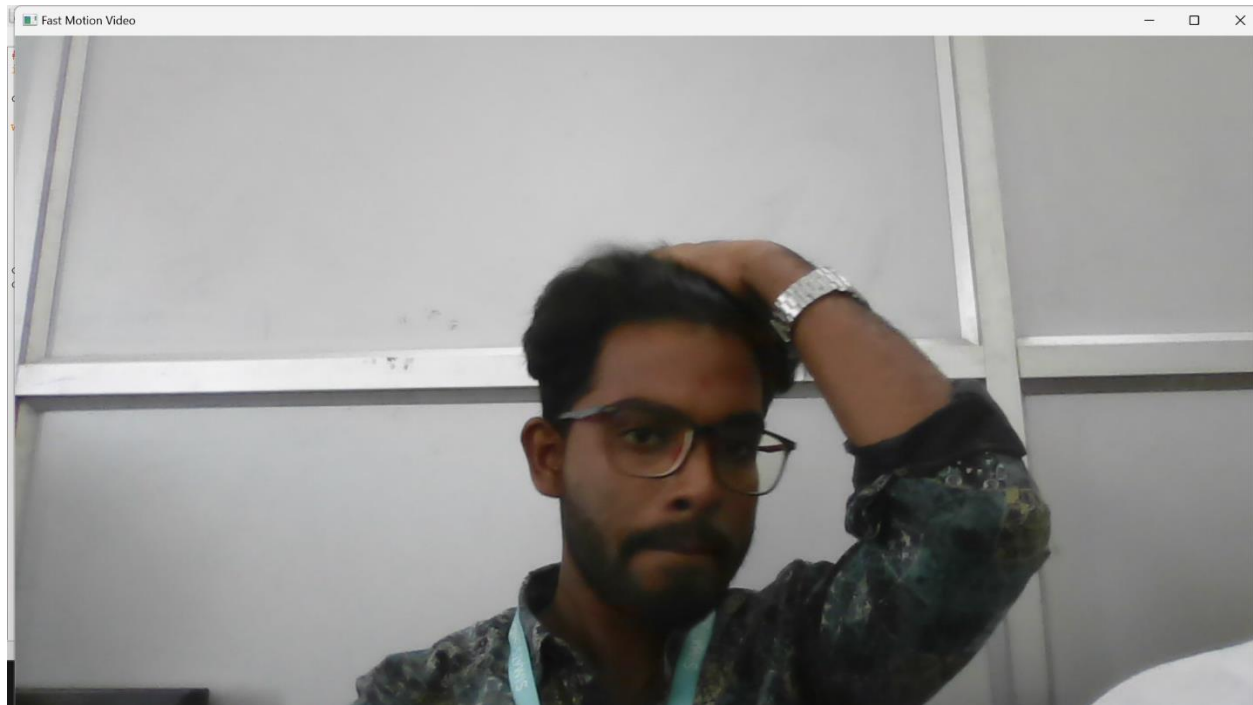
    cv2.imshow("Fast Motion Video", frame)

    if cv2.waitKey(5) & 0xFF == ord('q'):
        break

cap.release()
cv2.destroyAllWindows()
```

Ln: 1 Col: 0

OUTPUT:



SLOW MOTION

```
EXP-2 SLOW.py - C:\Users\veddy\OneDrive\Desktop\COMPUTER VISION\EXP-2 SLOW.py (3.11.9)
File Edit Format Run Options Window Help
import cv2

cap = cv2.VideoCapture(r"C:\Users\reddy\OneDrive\Desktop\COMPUTER VISION\WIN_20260209_13_38_13_Pro.mp4")

while True:
    ret, frame = cap.read()
    if not ret:
        break

    cv2.imshow("Slow Motion Video", frame)
    if cv2.waitKey(100) & 0xFF == ord('q'):
        break

cap.release()
cv2.destroyAllWindows()
```

Ln: 1 Col: 0

31°C Partly sunny Search 2:27 PM 2/13/2026

OUTPUT:

