DSA0210 Computer Vision with Open CV LAB Experiments

Experiment-3: 3. Capture video from web Camera and Display the video, in slow motion and in fast motion.

PROGRAM:

import cv2

Access the webcam (0 = default camera)

camera = cv2.VideoCapture(0)

Check if camera opened successfully

if not camera.isOpened():

    raise RuntimeError("Web camera not accessible")

print("Press 's' for Slow motion")

print("Press 'f' for Fast motion")

print("Press 'n' for Normal speed")

print("Press 'q' to Quit")

delay = 30 # Normal speed

while True:

    ret, frame = camera.read()

    if not ret:

        break

    # Display the webcam feed

    cv2.imshow("Web Camera Video", frame)
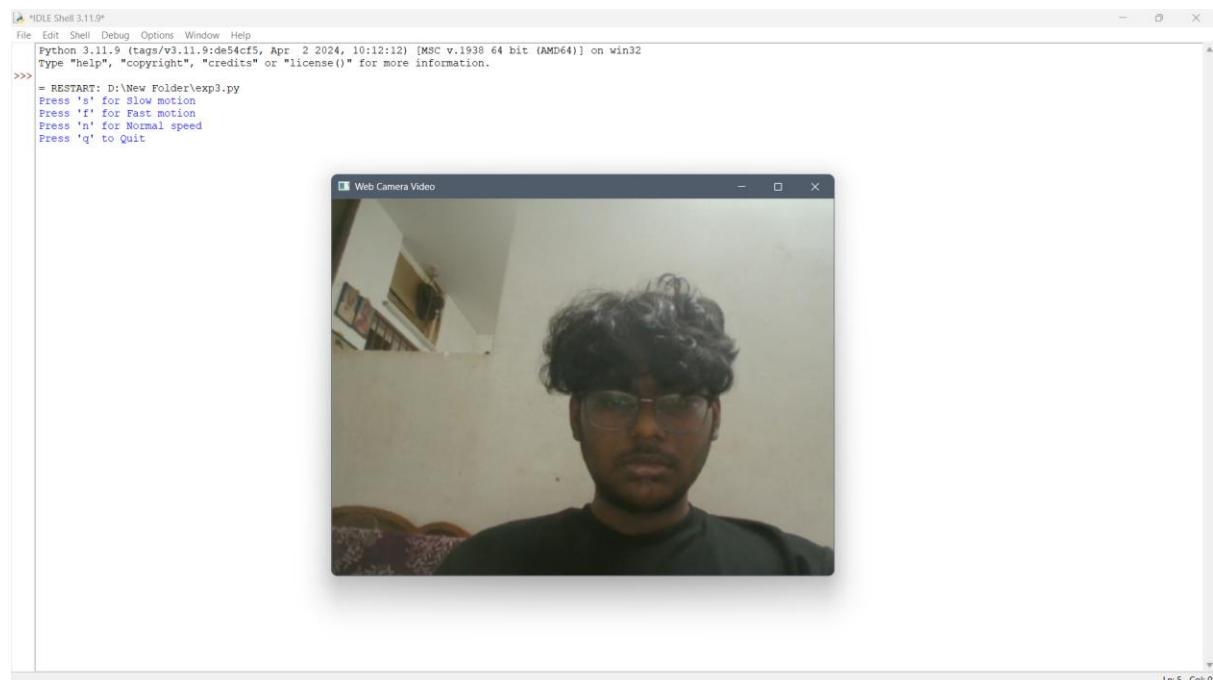
```python
    key = cv2.waitKey(delay) & 0xFF

    if key == ord('q'):
        break
    elif key == ord('s'):
        delay = 100   # Slow motion
    elif key == ord('f'):
        delay = 10    # Fast motion
    elif key == ord('n'):
        delay = 30    # Normal speed

# Release camera and close windows
camera.release()
cv2.destroyAllWindows()
```

OUTPUT: