ITA0520 – Computer Vision For Image Analysis

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Experiment 7:

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.

Code:

```
import cv2

cap = cv2.VideoCapture("video.mp4")

while True:

    ret, frame = cap.read()

    if not ret:

        break

    cv2.imshow("Normal Speed", frame)

    if cv2.waitKey(25) & 0xFF == ord("q"):

        break

cap.release()

cv2.destroyAllWindows()

cap = cv2.VideoCapture("video.mp4")

while True:

    ret, frame = cap.read()

    if not ret:

        break

    cv2.imshow("Slow Motion", frame)

    if cv2.waitKey(100) & 0xFF == ord("q"):

        break

cap.release()

cv2.destroyAllWindows()

cap = cv2.VideoCapture("video.mp4")

while True:
```
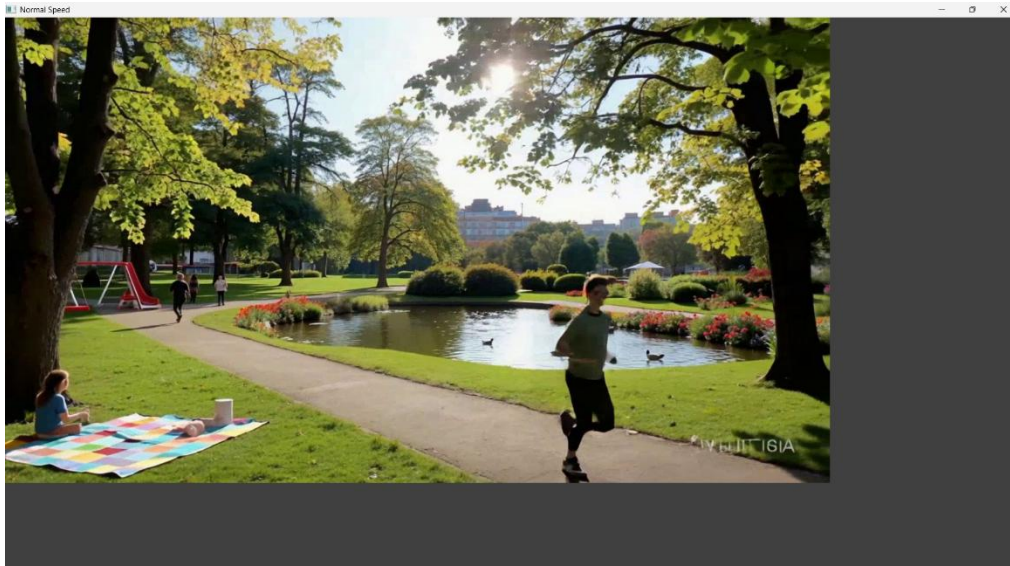
```
    ret, frame = cap.read()

    if not ret:

        break

    cv2.imshow("Fast Motion", frame)

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

        break

cap.release()

cv2.destroyAllWindows()
```

Input:

Output: