6. 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

import cv2  
  
video\_path = "C:/Users/sidda/OneDrive/Desktop/py/pexels-shah-jahan-5446310 (1080p).mp4"  
cap = cv2.VideoCapture(video\_path)  
  
slow\_factor = 2  
fast\_factor = 0.5  
  
while cap.isOpened():  
 ret, frame = cap.read()  
  
 if not ret:  
 break  
  
 cv2.imshow('Slow Motion', frame)  
 if cv2.waitKey(int(1000 / (slow\_factor \* 30))) & 0xFF == ord('q'):  
 break  
  
 cv2.imshow('Fast Motion', frame)  
 if cv2.waitKey(int(1000 \* (fast\_factor \* 30))) & 0xFF == ord('q'):  
 break  
  
cap.release()  
cv2.destroyAllWindows()

output

