39)Write a Python function to play the given video in reverse mode in slow motion.

CODE:

```
import cv2

def play_video_reverse_slow_motion(video_path, slow_factor=2):
    """
    Plays the given video in reverse mode with slow motion.

    Parameters:
    - video_path (str): Path to the input video file.
    - slow_factor (int): Factor by which playback is slowed down (default: 2).
    """
    # Try to open the video file
    cap = cv2.VideoCapture(video_path)

    if not cap.isOpened():
        print(f"Error: Cannot open video at {video_path}")
        return

    # Get the original frames per second (fps)
    fps = cap.get(cv2.CAP_PROP_FPS)
    delay = int(1000 / fps * slow_factor)  # Delay in ms for slow motion

    frames = []

    # Read and store all frames
    while True:
        ret, frame = cap.read()
        if not ret:
            break
        frames.append(frame)
```

```
    cap.release()

    print(f"Total frames loaded: {len(frames)}")
    print(f"Playing in reverse with {delay} ms delay between frames...")

    # Show frames in reverse order
    for frame in reversed(frames):
        cv2.imshow('Reverse Slow Motion Video', frame)
        if cv2.waitKey(delay) & 0xFF == ord('q'):
            break

    cv2.destroyAllWindows()

# === MAIN EXECUTION ===

if __name__ == "__main__":
    # 🔻 Specify the full path to your video file below
    video_path = r"C:\Users\harik\Downloads\CV LAB\human.mp4" # <-- Replace with your actual video path

    # 🔻 Optional: change slow_factor (e.g. 2 = 2x slower)
    play_video_reverse_slow_motion(video_path, slow_factor=3)
```

OUTPUT: