26. Implement a function to reverse the frames of the video to create a video in reverse mode using Open CV.

PROGRAM:

```
import cv2


def reverse_video(input_video_path, output_video_path):
    # Open the video
    cap = cv2.VideoCapture(r"C:\Users\harik\Downloads\CV LAB\mountain video.mp4")

    # Check if the video opened successfully
    if not cap.isOpened():
        print("Error: Unable to open video file.")
        return

    # Get video properties
    frame_width = int(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
    frame_height = int(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
    frame_rate = int(cap.get(cv2.CAP_PROP_FPS))

    # Create VideoWriter to save the reversed video with 'mp4v' codec
    fourcc = cv2.VideoWriter_fourcc(*'mp4v')  # Use 'mp4v' for MP4 compatibility
    out = cv2.VideoWriter(output_video_path, fourcc, frame_rate, (frame_width, frame_height))

    # Store all frames in a list
    frames = []

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

```
    # Reverse the frames
    frames.reverse()

    # Write the reversed frames to the output video
    for frame in frames:
        out.write(frame)

    # Release resources
    cap.release()
    out.release()
    cv2.destroyAllWindows()

    print(f"Video reversed successfully! Output saved to {output_video_path}")

# Example usage
input_video_path = 'input_video.mp4'  # Path to your input video file
output_video_path = 'reversed_video.mp4'  # Path where you want to save the reversed video

reverse_video(input_video_path, output_video_path)
```