```
import cv2
import numpy as np
import os
import matplotlib.pyplot as plt



def main():
    video_path = "C:/Users/SIDDHARTHA SAI/OneDrive/Desktop/OS/11-10.mp4"  # Corrected

    # Load video and extract frames
    frames = load_video(video_path)
    print(f"Extracted {len(frames)} frames")

    # Perform edge detection
    edge_frames = perform_edge_detection(frames)
    print("Completed edge detection")

    # Track objects
    object_tracks = track_objects(edge_frames)
    print(f"Tracked objects across {len(object_tracks)} frame pairs")

    # Detect scene cuts
    scene_cuts = detect_scene_cuts(frames)
    print(f"Detected {len(scene_cuts)} scene cuts")

    # Analyze similarity between scene cuts
    similarity_scores = analyze_scene_cut_similarity(frames, scene_cuts)
    print("Calculated similarity scores between scene cuts")

    # Visualize results
    visualize_results(frames, edge_frames, object_tracks, scene_cuts, similarity_scor
    print("Results visualization completed. Check the 'output_frames' directory for s
if __name__ == "__main__":
    main()
```

```
Error: Unable to open video file at C:/Users/SIDDHARTHA SAI/OneDrive/Desktop/OS/
Extracted 0 frames
Completed edge detection
Tracked objects across 0 frame pairs
Detected 0 scene cuts
Calculated similarity scores between scene cuts
Results visualization completed. Check the 'output_frames' directory for saved :
```

Start coding or generate with AI.

scene_cut_34.jpg scene_cut_35.jpg