Design and implement Multiple Object Tracking using OpenCV

1. **Install Dependencies**
   Install required libraries including `opencv-contrib-python` and `ultralytics` for OpenCV functionalities and YOLOv8 model loading.

2. **Extract Frames from Video**
   Load the input video and extract all frames using OpenCV. Save each frame as a separate image file.

3. **Load YOLOv8 Model**
   Use the `ultralytics` library to load the pre-trained YOLOv8 model (e.g., `yolov8n.pt`) for object detection.

4. **Detect Objects in Frames**
   For a selected frame, apply YOLOv8 to detect objects and extract their bounding box coordinates.

5. **Annotate Detections**
   Draw bounding boxes around detected objects using OpenCV and label them (e.g., "Object 1", "Object 2").

6. **Display with Interactive Frame Selector**
   Use `ipywidgets` to create a slider that allows you to choose any frame number and view its detections interactively.