```
import cv2
def detect_text_regions_from_video(video_path):
  # Open the video file
  cap = cv2.VideoCapture(video_path)
  # Check if the video file can be opened
  if not cap.isOpened():
    print("Error: Could not open video file. Please check the path.")
    return
  while cap.isOpened():
    ret, frame = cap.read()
    if not ret:
      break
    # Convert the frame to grayscale
    gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
    # Apply edge detection
    edges = cv2.Canny(gray, 100, 200)
    # Find contours in the edge-detected image
    contours, _ = cv2.findContours(edges, cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_SIMPLE)
    # Draw bounding boxes around detected contours
    for contour in contours:
      x, y, w, h = cv2.boundingRect(contour)
      # Filter contours based on size to exclude noise
      if w > 50 and h > 20: # Adjust thresholds as needed
```

40)Write a Python function to extract the text from videos.

```
cv2.rectangle(frame, (x, y), (x + w, y + h), (0, 255, 0), 2)
        # Display placeholder text above the bounding box
        cv2.putText(frame, "Detected Text", (x, y - 10), cv2.FONT_HERSHEY_SIMPLEX, 0.5, (0, 255,
0), 1)
    # Display the frame with detected regions
    cv2.imshow("Text Region Detection", frame)
    # Exit if 'q' is pressed
    if cv2.waitKey(1) \& 0xFF == ord('q'):
      print("Exiting video...")
      break
  # Release the video capture object and close any OpenCV windows
  cap.release()
  cv2.destroyAllWindows()
# Correct main block
if __name__ == "__main___":
  # Replace with the path to your video file
  video_path = r"C:\Users\harik\Downloads\CV LAB\human.mp4"
  detect_text_regions_from_video(video_path)
```

## OUTPUT:

