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36) Write a Python function to subtract the background of the given input image based on color
levels using Open CV
Code:
import cv2
import numpy as np
def subtract background by color(image path, lower bgr, upper bgr):
  Subtracts the background of the given image based on BGR color levels.
  Parameters:
  - image path: str - Path to the input image.
  - lower bgr: tuple - Lower bound for BGR color (e.g., (0, 100, 0)).
  - upper bgr: tuple - Upper bound for BGR color (e.g., (100, 255, 100)).
  # Load the image
  image = cv2.imread(r"C:\Users\harik\Downloads\CV LAB\GREEN.jpeg")
  if image is None:
    print("Error: Image not found.")
    return
  # Convert image to NumPy array and apply color threshold
  lower = np.array(lower bgr, dtype=np.uint8)
  upper = np.array(upper bgr, dtype=np.uint8)
  # Create mask for background
  mask = cv2.inRange(image, lower, upper)
  # Invert the mask to get foreground (non-background)
  mask inv = cv2.bitwise not(mask)
  # Apply mask to keep foreground
  foreground = cv2.bitwise and(image, image, mask=mask inv)
  # Display results
  cv2.imshow('Original Image', image)
  cv2.imshow('Background Removed', foreground)
  cv2.waitKey(0)
  cv2.destroyAllWindows()
  # Save result
  cv2.imwrite("foreground output.jpg", foreground)
# -----
# Example usage:
# Subtract green background (light green)
image path = "your image.jpg" # Replace with your actual image file
lower green bgr = (0, 100, 0)
upper green bgr = (100, 255, 100)
subtract background by color(image path, lower green bgr, upper green bgr)
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OUTPUT:

