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%to get the comparison between fivw different images of hands I take one
%hand image at at time by reading the hand image as 'myhand1', 'myhand2'.
%'myhand3', 'myhand4',, 'myhand5', at five different times. in 5th line of
%code.
%reading the image of hand
image = imread('myhand5.jpeg');
%converting rgb image to grayscale image
G_image=rgb2gray(image);
G_image=double(G_image);
G_image=G_image-min(G_image(:));
G_image=G_image./max(G_image(:));
figure
subplot(1, 2, 1);
imshow(G_image);
%to find the pixel information in the image fo intensity change
impixelinfo();
%for creating the axes on the hand w.r.t feature lines
for index = 1:14
    %creating coordinate matrices for two points for 14 lines
    p1 = zeros(14,2);
    p2 = zeros(14,2);
    %to point the coordinates of two points
    [p1(index, :), p2(index, :)] = ginput(2);
    %join the points with a line
    line(p1(index, :), p2(index, :), ...
'Marker', '*', 'Linewidth', 2, 'Color', 'g');
    %searching for gray color through pixel profile
    pixel_pro = improfile(gray, p1(index, :), p2(index, :));
    subplot(1, 2, 2);
    plot(pixel_pro);
    line_points_diff = diff(pixel_pro);
    minindex = zeros(14);
    maxindex = zeros(14);
    minVal = zeros(14);
    maxVal = zeros(14);
    minVal(index) = min(line_points_diff);
    maxVal(index) = max(line_points_diff);
    minindex(index) = find(line_points_diff==minVal(index), 1, 'last');
    maxindex(index) = find(line_points_diff==maxVal(index), 1);
    % finding slopes
    len = length(pixel_pro);
    m1x = (((norm(p1(index, :) - p2(index, :)))/len)*maxindex(index));
    m1y = (norm(p1(index, :) - p2(index, :)));
    m2x = ((norm(p1(index, :) - p2(index, :)))/len)*minindex(index);
    m2y = norm(p1(index, :) - p2(index, :));
    m1 = (m1x/m1y);
    m2 = (m2x/m2y);
    %intializing start and end pixel matrices for storing values
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end