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Question 3

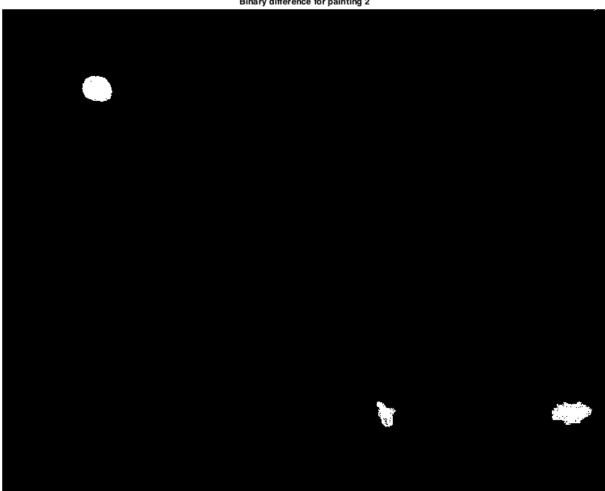
```
clear all;
close all;
paint1_ref = im2double(imread('hw1_data/hw1_painting_1_reference.jpg'));
paint1_tamp = im2double(imread('hw1_data/hw1_painting_1_tampered.jpg'));
paint2_ref = im2double(imread('hw1_data/hw1_painting_2_reference.jpg'));
paint2 tamp = im2double(imread('hw1 data/hw1 painting 2 tampered.jpg'));
threshold = 0.02;
% Painting 1
[height, width] = size(paint1_ref);
paint1_tamp_aligned = Align(paint1_tamp, paint1_ref);
paint1_diff = abs(paint1_ref - paint1_tamp_aligned);
binary = rgb2gray(paint1 diff);
binary = binary > threshold;
figure;
imshow(binary);
title('Binary difference for painting 1');
% Painting 2
[height, width] = size(paint2_ref);
paint2_tamp_aligned = Align(paint2_tamp, paint2_ref);
paint2_diff = abs(paint2_ref - paint2_tamp_aligned);
binary = rgb2gray(paint2_diff);
binary = binary > threshold;
figure;
imshow(binary);
title('Binary difference for painting 2');
```

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Binary difference for painting 2



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