```
% Created by Om Hajare
% Bit Plane Slicing
% Read the image
img = imread('https://images.unsplash.com/photo-1600852344090-12e843250e32?
q=80&w=1887&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wY
WdlfHx8fGVufDB8fHx8fA%3D%3D');
% Convert the image to grayscale if it's not already
if size(img, 3) == 3
    img = rgb2gray(img);
end
% Get the size of the image
[rows, cols] = size(img);
% Initialize the output image
output_img = zeros(rows, cols, 'uint8');
% Loop through each bit plane
for bit = 1:8
    % Extract the bit plane
   bit_plane = bitget(img, bit);
    % Remove the LSB (bit 1)
    if bit > 1
        output_img = output_img + uint8(bit_plane * 2^(bit-1));
    end
end
% Display the original and processed images
figure;
subplot(1, 2, 1);
imshow(img);
title('Original Image');
subplot(1, 2, 2);
imshow(output_img);
title('Image with LSB Removed');
```

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Original Image



Image with LSB Removed



