WAES3106 Assignment 1

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Question 1 (a)



Figure 1: Question 1 (a)

Question 1 (b)

lena and peppers



Figure 2: Question 1 (b)

Question 2 (a)

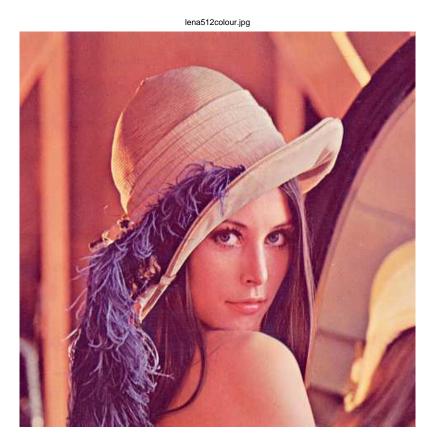


Figure 3: Question 2 (a)

Question 2 (b, c)



Figure 4: Question 2 (b, c)

A Complete Code

```
Initialization _
clc;
clear;
close all;
                                     ___ Question 1 (a) _____
% %%%%%Read image%%%%%%
I1=imread('lena.jpg');
I2=imread('peppers.jpg');
% %%%%%%Show image%%%%%%
% show lena.jpg
figure, imshow(I1);
title('lena.jpg');
% show
figure, imshow(I2);
title('peppers.jpg');
                                      _ Question 1 (b) _____
% %%%%%Construct image A%%%%%%
A=[I1(:,1:122,:), I2(:, 123:end, :)];
% %%%%%%Show image A%%%%%%
figure, imshow(A);
title('lena and peppers');
                                _____ Question 2 (a) _____
% %%%%%Read image%%%%%%%
A1=imread('lena512colour.jpg');
% %%%%%%Show image%%%%%%
figure, imshow(A1)
title('lena512colour.jpg');
                                     _ Question 2 (b, c) _____
% %%%%%Duplicate image%%%%%%%
A2=A1;
\% %%%%%%Change colour band of A2%%%%%%
A2(:,:,1)=A1(:,:,3);
A2(:,:,2)=A1(:,:,1);
A2(:,:,3)=A1(:,:,2);
%% Question 2 (c)
% %%%%%Show and save image%%%%%%%
figure, imshow(A2);
title('modified lena512colour');
imwrite(A2, 'newlena512colour.jpeg', 'jpeg');
```