

Assignment 5

Parul Shandilya

16UCS126

```
close all;
%reading image
A=imread('vegetables.jpg');
%displaying image
figure;
imshow(A);
%taking rgb values
R=A(:,:,1);
G=A(:,:,2);
B=A(:,:,3);
%displaying image by interchanging G and R using cat
rgb=cat(3,G,R,B);
imshow(rgb);
%displaying image by interchanging G and R
Q=A(:,:,1);
A(:,:,1)=A(:,:,2);
A(:,:,2)=Q;
imshow(A);
%reading image
B=imread('vegetables1.jpg');
%subtracting original with the extracted with swap operation
P=A-B;
%displaying subtraction that is black image
figure;
imshow(P);
%checking if any noise is left
[x,y]=size(A);
max=0;
for i=1:x
    for j=1:y
        if(P(i,j)>max)
            max=P(i,j);
        end
    end
end
max
```



Original



Expected Conversion



After Conversion