

## COC202 Computer Vision

### Lab 1 – Getting started with Matlab – Solutions

1. –

2.

```
im = imread('lenna.tif');  
whos  
imshow(im);
```

3.

```
imR = im(:,:,1);  
imG = im(:,:,2);  
imB = im(:,:,3);  
figure  
subplot(1,3,1);  
imshow(imR);  
subplot(1,3,2);  
imshow(imG);  
subplot(1,3,3);  
imshow(imB);
```

4.

```
[dimX dimY noCh] = size(im);  
imcropped = im(51:dimX-50,51:dimY-50,:);  
% or imcropped = im(51:end-50,51:end-50,:);  
imshow(imcropped);
```

5.

```
function imcropped = cropimage(im, n)  
% saved as cropimage.m  
  
[dimX dimY noCh] = size(im);  
imcropped = im(n+1:dimX-n,n+1:dimY-n,:);
```