1. Read a grayscale image and display it using function imshow(a).

clc;

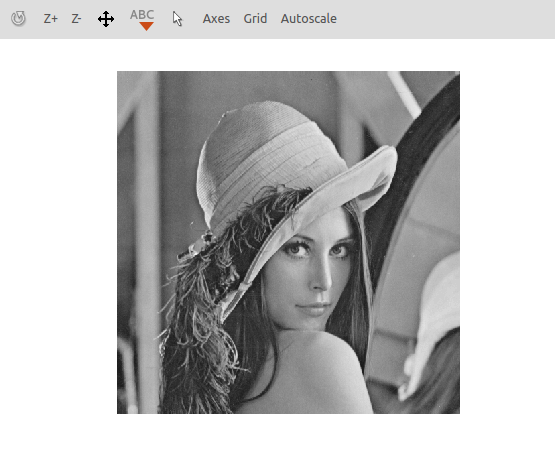
clear all;

close all;

a = imread('lena512.bmp');

imshow(a)

**Output**



1. Read a grayscale image and display its intensity level in different pixels.

clc;

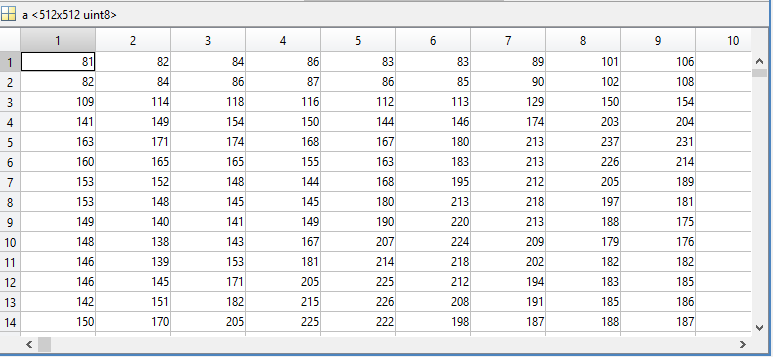
clear all;

close all;

a = imread('lena512.bmp');

a;

**Output**



1. Display the intensity of pixel in position (20,0) (511,511),(0,0) and relate it with picture (conclusion must be in lab report)

clc;

clear all;

close all;

a = imread('C:\Users\dwit\Desktop\bitmap\fruit\_lumi.bmp');

a(20,0): **Error as the pixel count starts from 1**

a(511,511: **16 the value of pixel at 511,511 is 16 that is near to 0, i.e. near to black**

a(0,0): **Error as the pixel count starts from 1**

1. Create an array of size 512 x 512 and assign values 1-512 to elements of rows. Then display it.:

clc;

clear all;

close all;

for i = 1:1:511

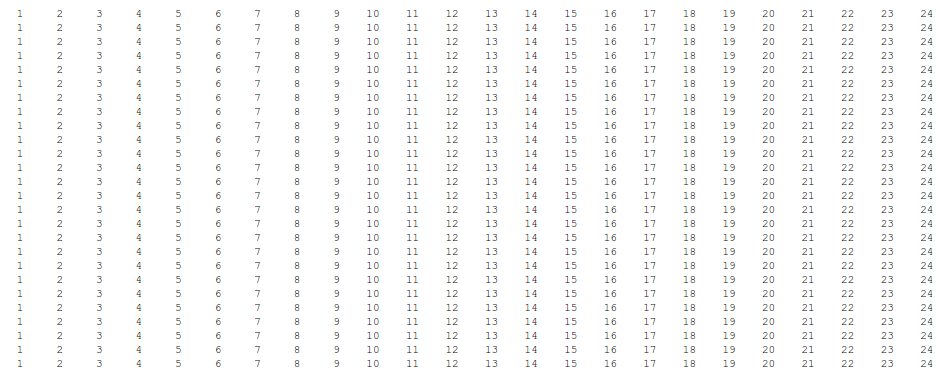
for j = 1:1:511

a(i,j) = j;

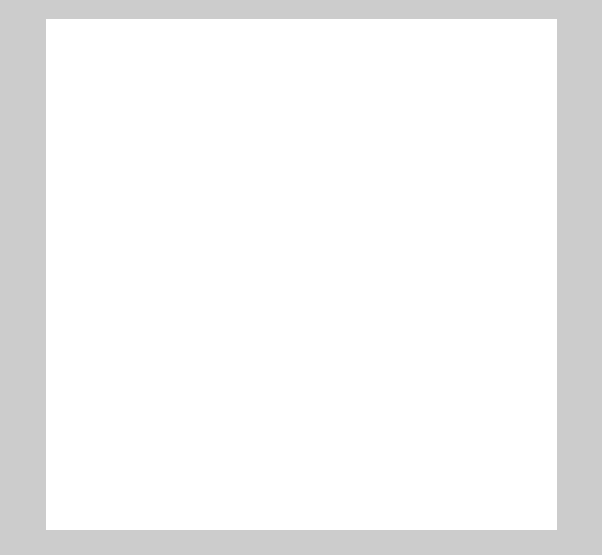
end

end

**Output:**



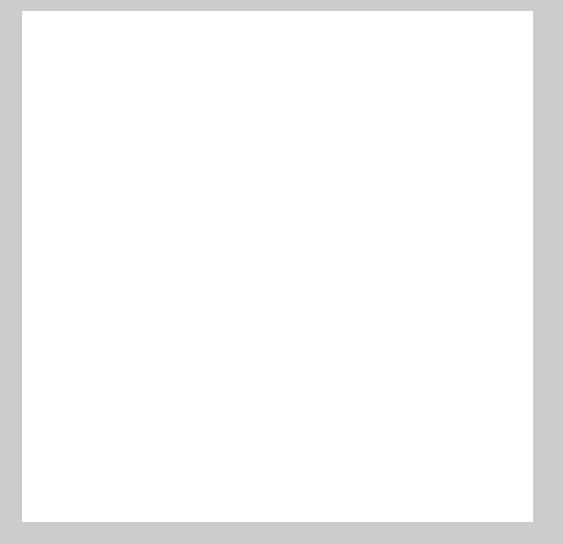
1. Display image created in d by a using function imshow(a).



1. Display image created in d by a using function imshow(a,[0 255]);
2. Display image created in d by a using following code.

Colormap(gray(256));

Imshow(a);



1. Read a grayscale image and flip it.

clc;

clear all;

close all;

a = imread('lena512.bmp')

[x y]= size(a)

for i = 1:1:225

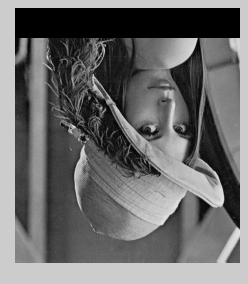
for j = 1:1:225

b(255+1-i,j)= a(i,j);

end

end

imshow(b);



1. Read a grayscale image and mirror it.

clc;

clear all;

close all;

a = imread('lena512.bmp')

[x y]= size(a)

for i = 1:1:225

for j = 1:1:225

b(i,225+1-j)= a(i,j);

end

end

imshow(b);

