```
a1=[1 2 3]

a2=[1 2 3; 4 5 6; 7 8 9]

a3=0:2:10

a4=1:10

size(a4)

length(a4)

a5=a4(1:2:10)

a5=a4(1:2:end)

a6=ones(2,3)

help ones

a7=zeros(2,3)

a8=magic(2,3)

a8=magic(3)

help magic

a1

a9=[4 5 6]

[a1 a9]

[a1; a9]

a8

a8(2,2)

a8(3, :)

a10=ones(3)

a8+a10

a8*a10

a8.*a10
```

```matlab
im1=imread('library.jpg');

im1g=rgb2gray(im1);

im2=imread('moon.jpg');

im2g=rgb2gray(im2);

imshow(im2)

imshow(im2g)

im1c=im1g(1:180, 1:180);

im2c=im2g(1:180, 1:180);

im3=im1c+im2c; imshow(im3)

subplot(221), imshow(im1x)

subplot(221), imshow(im1c)

subplot(222), imshow(im2c)

subplot(223), imshow(im3)

im4=0.5*im1c+0.5*im2c;

subplot(224), imshow(im4)

im5=imread('Address_Recognition');

im5=imread('Address_Recognition.png');

imshow(im5)

close all

imshow(im5)

im6=rgb2gray(im5);

imshow(im6)

a8

thre_a8 = (a8<5)

thre_im6 = im6<100;
```

imshow(thre_im6)