

## Various arithmetic operations on matrices

```
>>a=[1 2 3;4 5 6;7 8 9]
>>b=[9 0 7;6 5 -4;3 2 1]

>>c=a+b
>>sum(a)
>>a([1:2])
>>b(2,3)
>>a([1:3],[2:3])
>>a(:,3)
>>a(2:end,2:end)
>>a(2:3,2:3)
>>a([1:2],[1:2])
>>a(:,2:end)

>>a([1,3],[2,3])
>>a(end-1:end,end-1:end)

>>flip(a)
>>a([3,2,1],[1,2,3])

>>a([3,2,1],:)
```

## Program to flip an image

```
>>I=imread('C:\Users\GLAU\Desktop\161500207.jpg');
>> imshow(I);
>> whos I;
  Name      Size      Bytes Class  Attributes

  I         294x240x3    211680 uint8

>> [x,y,z]=size(I);
>> image(I);
>> x\eye(size(x));
>> y\eye(size(y));
>> imshow(I);
>> x

x =

    294

>> b=I(:,end:-1:1,:);
>> image(b);
>> imshow(I);
>> imshow(b);
>> c=I(end:-1:1,,:);
>> image(c);
>> d=I(:,:,end:-1:1)
```

