



## AL-MUSTAQBAL UNIVERSITY COLLEGE Department of Biomedical Engineering

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Computer Skills and Computing for BME 1
VECTORS

## Vectors

- \*Length or size of an array A
- . Length(A)
- \*Find an element in an array [2]

## A(i)

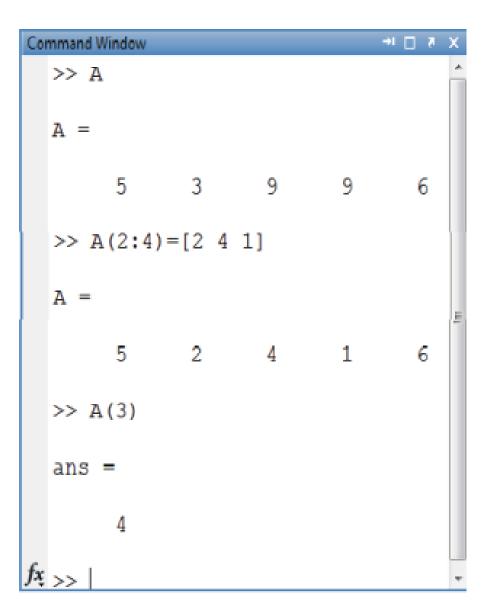
- \* i is the index of the i th element
- \*Replace an element' value with another
- \*A(i)=new\_value
- \* Remark: the index of the first element of an array is 1.

```
→ □ ₹ )
Command Window
  >> A=[5 3 9 4 6];
  >> length(A)
  ans =
  >> A(4)=9
  A =
fx >>
```

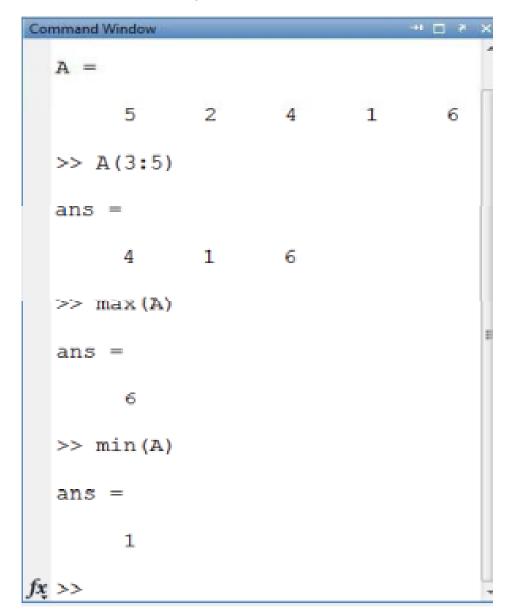
☐ Replace values of a range of elements in an array using (:)

**□**Example

Extract the third element i an array A

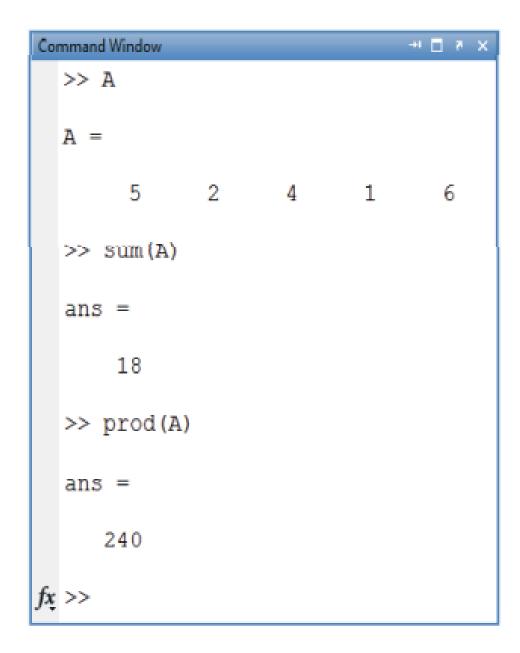


- □ Exract the ith through the j th elements in an array
- A(i : j)
- □Extract largest element in array A max(A)
- □Extract minimal element in array A min(A)

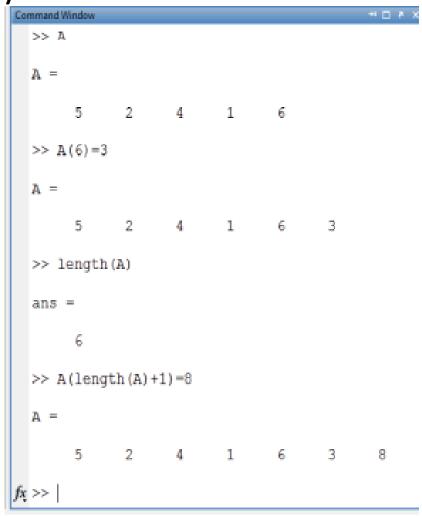


□Sum of array elements sum(A)

- ☐ Product of array elements
- prod(A)



☐Add an element at the end of an array



## Add set of elements at the end of an array

```
Command Window

>> A = [5 3 9 4 6]

A =

5 3 9 4 6

>> A(6:8) = [3 8 7]

A =

5 3 9 4 6 3 8 7

fix >> |
```

☐ Delete elements from an array ☐From the end

```
Command Window
 >> A=[5 3 9 4 6]
 >> A(5)=[]
 >> A(3:4)=[]
```

- ☐ Delete elements from an array
- ☐ From anywhere

