```
>> %Array: tipe data khusus yang ada pada mathlab
>> %struktur data adalah pendefinisian dari suatu variabel
>> a = {'Jimmi'; 'usia 20'; 'alamat rumah';'pekerjaan pengangguran'}

a =

    'Jimmi'
    'usia 20'
    'alamat rumah'
    'pekerjaan pengangguran'

>> a(4)

ans =

    'pekerjaan pengangguran'

>> %number gunakan kurung siku
>> c = {'jimmi' 'bandar'}

c =

    'jimmi'    'bandar'

>> j = [ 1 7 10 17 27]

j =

     1     7    10    17    27

>> i = [ 1 7 10 17 27;
10 7 17 27 1;
27 1 10 17 7]

i =

     1     7    10    17    27
    10     7    17    27     1
    27     1    10    17     7

>> m = [2 0 7; 1 0 9; 2 1 2]

m =

     2     0     7
     1     0     9
     2     1     2

>> m[2:2]
 m[2:2]
  |
```

Error: Unbalanced or unexpected parenthesis or bracket.

```
>> m(2)

ans =

     1

>> m(1,3)

ans =

     7

>> m(2,:,2)
Index exceeds matrix dimensions.

>> m(2,:,1)

ans =

     1     0     9

>> m(3,:,1)

ans =

     2     1     2

>> m(1,:,2)
Index exceeds matrix dimensions.

>> m

m =

     2     0     7
     1     0     9
     2     1     2

>> m(3,1)

ans =

     2

>> m(2,2)

ans =

     0
```

```
>> m(:,2)

ans =

     0
     0
     1

>> %m(:,n) artinya mengambil nilai di kolom ke n
>> c

c =

    'jimmi'     'bandar'

>> j

j =

     1     7     10     17     27

>> %length(m) = panjang suatu matriks atau vektor
>> jj = [2 1 3 5 4]

jj =

     2     1     3     5     4

>> j + jj

ans =

     3     8     13     22     31

>> jj - j

ans =

     1     -6     -7     -12     -23

>> j - jj

ans =

    -1     6     7     12     23

>> jj'

ans =
```

```
         2
         1
         3
         5
         4

>> jj*j'

ans =

    232

>> jj^j
Error using  ^
Inputs must be a scalar and a square matrix.
To compute elementwise POWER, use POWER (.^) instead.

>> jj.^j

ans =

   1.0e+16 *

     0.0000     0.0000     0.0000     0.0001     1.8014

>> j

j =

      1      7     10     17     27

>> ~jj

ans =

      0      0      0      0      0

>> j

j =

      1      7     10     17     27

>> sub_j = j(1:3)

sub_j =

      1      7     10

>> m5 = [1 2; 5 6]
```

```
m5 =

     1     2
     5     6

>> m6 = [3 4; 7 8]

m6 =

     3     4
     7     8

>> m5 + m6

ans =

     4     6
    12    14

>> adjoint(m6)
Undefined function 'adjoint' for input arguments of type 'double'.

>> j

j =

     1     7    10    17    27

>> i

i =

     1     7    10    17    27
    10     7    17    27     1
    27     1    10    17     7

>> i(2,:)=[]

i =

     1     7    10    17    27
    27     1    10    17     7

>> i(:,2)=[]

i =

     1    10    17    27
    27    10    17     7

>> inv(i)
```

Error using inv
Matrix must be square.

>> inv(m5)

ans =

    -1.5000   0.5000
     1.2500   -0.2500

>> %inv = invers matriks
>>