```
>> %Array: adalah tipe data khusus yang ada pada matlab
>> a = {'Grace';
'usia 21';
'alamat rumah';
'pekerjaan mahasiswa'}

a =

  4×1 cell array

    {'Grace'              }
    {'usia 21'            }
    {'alamat rumah'       }
    {'pekerjaan mahasiswa'}

>> a(2)

ans =

  1×1 cell array

    {'usia 21'}

>> b = {'Grace' 'Mahasiswa'}

b =

  1×2 cell array

    {'Grace'}    {'Mahasiswa'}

>> c = [1 2 3 4 5]

c =

     1     2     3     4     5

>> d = [1 2 3 4 5;
2 3 4 5 1 ;
3 4 5 1 2]

d =

     1     2     3     4     5
     2     3     4     5     1
     3     4     5     1     2

>> e = [1 0 2;2 1 1; 3 1 8]

e =
```

```
     1      0      2
     2      1      1
     3      1      8

>> e(:,:)

ans =

     1      0      2
     2      1      1
     3      1      8

>> e(2,:,1)

ans =

     2      1      1

>> e(1,
 e(1,
    ↑
Error: Invalid expression. When calling a function or indexing a variable, use ↙
parentheses. Otherwise, check for
mismatched delimiters.

>> e(1,:,1)

ans =

     1      0      2

>> e(3,1,:)

ans =

     3

>> e(2,3,:)

ans =

     1

>> e(;,3)
 e(;,3)
   ↑
Error: Invalid expression. When calling a function or indexing a variable, use ↙
parentheses. Otherwise, check for
mismatched delimiters.
```

```
>> e(:,3)

ans =

     2
     1
     8

>> c

c =

     1     2     3     4     5

>> length (c)

ans =

     5

>> c1 = [2 3 4 5 1]

c1 =

     2     3     4     5     1

>> c +c1
Unrecognized function or variable 'c'.

>> c + c1

ans =

     3     5     7     9     6

>> c-c1

ans =

    -1    -1    -1    -1     4

>> c*c1
Error using  *
Incorrect dimensions for matrix multiplication. Check that the number of columns in the ↙
first matrix matches the
number of rows in the second matrix. To perform elementwise multiplication, use '.*'.

>> c * c1
Error using  *
```

Incorrect dimensions for matrix multiplication. Check that the number of columns in the ↙
first matrix matches the
number of rows in the second matrix. To perform elementwise multiplication, use '.*'.

```
>> c1'

ans =

     2
     3
     4
     5
     1

>> c*c1'

ans =

    45

>> c/c1

ans =

    0.8182

>> c^c1
Error using  ^  (line 51)
Incorrect dimensions for raising a matrix to a power. Check that the matrix is square ↙
and the power is a scalar. To
perform elementwise matrix powers, use '.^'.

>> c^c1'
Error using  ^  (line 51)
Incorrect dimensions for raising a matrix to a power. Check that the matrix is square ↙
and the power is a scalar. To
perform elementwise matrix powers, use '.^'.

>> c.^c1

ans =

          1            8           81         1024            5

>> c\c1

ans =

         0            0            0            0            0
         0            0            0            0            0
```

```
        0          0          0          0          0
        0          0          0          0          0
   0.4000     0.6000     0.8000     1.0000     0.2000

>> c1/c

ans =

   0.8182

>> c + c1

ans =

    3      5      7      9      6

>> c - c1

ans =

   -1     -1     -1     -1      4

>> c*c1'

ans =

   45

>> c*c1
Error using  *
Incorrect dimensions for matrix multiplication. Check that the number of columns in the ↙
first matrix matches the
number of rows in the second matrix. To perform elementwise multiplication, use '.*'.

>> c.*c1

ans =

    2      6     12     20      5

>> c/c1

ans =

   0.8182

>> c./c1

ans =
```

```
   0.5000      0.6667      0.7500      0.8000      5.0000

>> c\c1

ans =

        0           0           0           0           0
        0           0           0           0           0
        0           0           0           0           0
        0           0           0           0           0
   0.4000      0.6000      0.8000      1.0000      0.2000

>> c.\c1

ans =

   2.0000      1.5000      1.3333      1.2500      0.2000

>> c^c1
Error using  ^  (line 51)
Incorrect dimensions for raising a matrix to a power. Check that the matrix is square↙
and the power is a scalar. To
perform elementwise matrix powers, use '.^'.

>> c.^c1

ans =

        1           8          81        1024           5

>> m1 = [1 2]

m1 =

     1      2

>> m2 = [3 4]

m2 =

     3      4

>> m1 = [1 2]

m1 =

     1      2

>> m1 = [3 4 ;1 2]
```

```
m1 =

     3     4
     1     2

>> m2 = [2 3 ;1 5]

m2 =

     2     3
     1     5

>> m1+m2

ans =

     5     7
     2     7

>> m1 - m2

ans =

     1     1
     0    -3

>> m1 * m2

ans =

    10    29
     4    13

>> det (m1)

ans =

     2

>> adjoint(m1)
'adjoint' requires Symbolic Math Toolbox.

>> inv(m1)

ans =

    1.0000   -2.0000
   -0.5000    1.5000

>>
```