

## Array Example:

The image shows the MATLAB R2016a interface. The Editor window displays a script named `array_example.m` with the following code:

```
1 - clear
2 - a = [2 4; 6 8];
3 - b = [1 3; 5 7];
4 - disp('Array A');
5 - disp(a);
6 - disp('Array B');
7 - disp(b);
8 - disp('Transpose Matrix');
9 - disp(inv(a));
10 - disp('Inverse Matrix');
11 - disp(inv(a));
12 - disp('Dot Multiplication');
13 - disp(a.*b);
14 - disp('Cross Multiplication');
15 - disp(a*b);
16 -
```

The Command Window shows the output of the script:

```
New to MATLAB? See resources for Getting Started.

Array A
     2     4
     6     8

Array B
     1     3
     5     7

Transpose Matrix
     2     6
     4     8

Inverse Matrix
    -1.0000    0.5000
     0.7500   -0.2500

Dot Multiplication
     2    12
    30    56

Cross Multiplication
    22    34
    46    74

fx >>
```

The Workspace window shows the variables `a` and `b` with their values:

Name	Value
a	[2,4;6,8]
b	[1,3;5,7]

## Condition Example:

The image shows the MATLAB R2016a interface. The Editor window displays a script named `condition_example.m` with the following code:

```
1 - clear
2 - name = input('Enter Your Name : ','s');
3 - if strcmp(name, 'Ridwan')
4 -     disp('Hello Ridwan');
5 - else
6 -     disp('Sorry');
7 - end
8 - % Example 2
9 - d = input('Enter Distance : ');
10 - if d >= 60 && d <= 100 % distance in metter
11 -     disp('Intoder is found');
12 - elseif d >= 0 && d < 60
13 -     disp('Bell the alearm');
14 - else
15 -     disp('Nothig to be worry');
16 - end
17 -
```

The Command Window shows the output of the script:

```
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Enter Your Name : Rid
Sorry
Enter Distance : 50
Bell the alearm

fx >>
```

The Workspace window shows the variables `d` and `name` with their values:

Name	Value
d	50
name	'Rid'

## Loop Example:

