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18/ENGG02/007

COMPUTER ENGINEERING

$$A = \begin{pmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \end{pmatrix}$$

+

$$B = \begin{pmatrix} 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{pmatrix}$$

$$X = \text{stack}(A, B)$$

$$X = \begin{pmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \\ 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{pmatrix}$$

$$Y = \text{augment}(A, B)$$

$$Y = \begin{pmatrix} 1 & 4 & 7 & 10 & 13 & 16 \\ 2 & 5 & 8 & 11 & 14 & 17 \\ 3 & 6 & 9 & 12 & 15 & 18 \end{pmatrix}$$

Editor - C:\Users\Dell\Desktop\MATLAB CLASSWORKS\mlab1.m

mlab1.m x +

```
1 -   commandwindow
2 -   clear
3 -   clc
4 -   close all
5 -   A = [1 4 7; 2 5 8; 3 6 9]
6 -   B = [10 13 16; 11 14 17; 12 15 18]
7 -   X = [A; B]
8 -   Y = [A, B]
9
```

Workspace

Name	Value
A	[1,4,7;2,5,8;3,6,9]
B	[10,13,16;11,14,1...
X	6x3 double
Y	3x6 double

Command Window

New to MATLAB? See resources for [Getting Started](#).

A =

1	4	7
2	5	8
3	6	9

B =

10	13	16
11	14	17
12	15	18

X =

1	4	7
2	5	8
3	6	9
10	13	16
11	14	17
12	15	18

Y =

1	4	7	10	13	16
2	5	8	11	14	17
3	6	9	12	15	18

f1 >>