

AHMED FAWWAZ ABIOLA
18/ENG06/004
MECHANICAL ENGINEERING

+

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

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

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

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

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

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

Math

- $x = \int \frac{dy}{y}$
- $\alpha \beta$
- $\frac{d}{dx}$
- $\frac{d^2}{dx^2}$
- $\frac{d^3}{dx^3}$
- $\frac{d^4}{dx^4}$
- $\frac{d^5}{dx^5}$
- $\frac{d^6}{dx^6}$
- $\frac{d^7}{dx^7}$
- $\frac{d^8}{dx^8}$
- $\frac{d^9}{dx^9}$
- $\frac{d^{10}}{dx^{10}}$
- $\frac{d^{11}}{dx^{11}}$
- $\frac{d^{12}}{dx^{12}}$
- $\frac{d^{13}}{dx^{13}}$
- $\frac{d^{14}}{dx^{14}}$
- $\frac{d^{15}}{dx^{15}}$
- $\frac{d^{16}}{dx^{16}}$
- $\frac{d^{17}}{dx^{17}}$
- $\frac{d^{18}}{dx^{18}}$
- $\frac{d^{19}}{dx^{19}}$
- $\frac{d^{20}}{dx^{20}}$

Calculator

Matrix

- $n!$
- \ln
- \log
- \tan
- \cos
- \sin
- $:=$
- $.$
- 0
- $-$
- $=$

HOME PLOTS APPS EDITOR PUBLISH VIEW

File: New, Open, Save, Find Files, Compare, Print, Go To, Find

Edit: Insert, Comment, Indent

Breakpoints

Run: Run, Run and Advance, Run Section, Advance, Run and Time

Search Documentation Log In

C:\Program Files\MATLAB\R2017a\bin

Current Folder

- worker.bat
- mw_mpiexec.bat
- mexutils.pm
- mexsetup.pm
- mexext.bat
- mex.pl
- mex.bat
- mcc.bat
- mbuild.bat
- matlab.exe
- lcdata_utf8.xml
- lcdata.xsd
- lcdata.xml
- deploytool.bat
- win64

Details

Workspace

Name	Value
a	[1,4,7;2,5,8;3,6,9]
b	[10,13,16;11,14,17;12,15,18]
X	6x3 double
Y	3x6 double

```
Editor - C:\Users\AHMED\Documents\MATLAB\ASSIGNMENTUntitled2.m*
ASSIGNMENTUntitled2.m* x makeheadhtml.m x MELVINAMADIUntitled.m x ANDREWTOBI.m x +
1 -   commandwindow
2 -   clear
3 -   clc
4 -   a=[1 4 7;2 5 8;3 6 9]
5 -   b=[10 13 16;11 14 17;12 15 18]
6 -   X=[a; b]
7 -   Y=[a, b]
8 -   AHMED FAWWAZ ABIOLA
9 -   18/ENG06/004
10  MECHANICAL ENGINEERING
11
```

Command Window

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

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

fx >>

HOME PLOTS APPS EDITOR PUBLISH VIEW

Find Files Compare Print Go To Find

Insert Comment Indent Breakpoints Run Run and Advance Run Section Advance Run and Time

FILE NAVIGATE EDIT BREAKPOINTS RUN

C:\Program Files\MATLAB\R2017a\bin

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 =
```

HOME PLOTS APPS EDITOR PUBLISH VIEW

Find Files Compare Print Go To Find

Insert Comment Indent Breakpoints Run Run and Advance Run Section Advance Run and Time

FILE NAVIGATE EDIT BREAKPOINTS RUN

C:\Program Files\MATLAB\R2017a\bin

Command Window

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

```
    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
```

>>