

DAILY ASSESSMENT
FORMAT

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Course:	matlab	USN:	4AL17EC071
Topic:	Sec1-sec5		6 th b
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FORENOON SESSION DETAILS

2.1 Entering Commands

Task 1

You can execute commands by entering them in the command window after the MATLAB prompt (`>>`) and pressing the **Enter** key.

TASK

Multiply the numbers 3 and 5 together with the command `3*5`.

[Hint](#) [See Solution](#)

Task 2

Task 3

Task 4

Task 5

Task 6

Task 7

Further Practice

HOME

Task 1 ✖

>>

Task 1 ✓

>> 3*5

ans =

15

Correct!

Continue

Try an alternative solution

WORKSPACE

Name	Value
ans	15

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MATLAB Onramp (20% complete)

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3.2 The MATLAB Editor

Task 1

Task 2

TASK

Add the command `x = pi*r^2` to the script.

[Hint](#) [See Solution](#) [Reset](#)

Submit

Next task

Test Results: **Correct!**

✓ Does x exist?

✓ Does x have the correct value?

Further Practice

HOME

LIVE EDITOR

VIEW

Text

Code

Section Break

Run

Step

Stop

createscript.mlx

1 r=3

2 x=pi*r^2

3

r = 3

x = 28.2743

WORKSPACE

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4.1 Manually Entering Arrays

← PREVIOUSNEXT →

Task 1

Task 2

Task 3

Task 4

Task 5

Task 6

Task 7

Further Practice

Arrays are used throughout MATLAB. In fact, MATLAB is an abbreviation for MATrix LABoratory. You'll find that most MATLAB functionality can work on multiple values at once.

There is some flexibility when you create arrays. For example, these are all valid ways to create the same array:

x = [7 9]

x = [7,9]

x = [7, 9]

Try experimenting with whitespace, commas, and semicolons when creating this matrix:

718

458

1042

Next section >

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LIVE EDITOR

VIEW

Text

Code

Section Break

Run

Task

Control

Refactor

Run Section

Run and Advance

Run to End

Run

Step

Stop

vectors.mlx * x

Task 4

Task 5

Task 6

Task 7

Further Practice

x=[3,10,5]

x=[8;2;-4]

x=[5 6 7;8 9 10]

x=[sqrt(10) | pi^2]

x = 4

x = 1x2

79

x = 2x1

79

x = 1x3

3105

x = 3x1

82-4

x = 2x3

5678910

x = 1x2

3.16239.8696

COMMAND WINDOW

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(32% complete)

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5.1 Indexing into Arrays: (1/2) Indexing into Arrays

PREVIOUSNEXT

x

12345678910

231-905-37-1-8

x(3) = 1

PREVIOUSNEXT

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(35% complete)

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5.1 Indexing into Arrays: (2/2) Practice

PREVIOUSNEXT

Task 1

Task 2

Task 3

Further Practice

If you only use one index with a matrix, it will traverse down each column in order. Using one index, try extracting the eighth element of data.

You can also use variables as your index. Try creating a variable `y`, and using `y` as the index to `data`.

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VIEW

Text

Code

Code

Task

Control

Refactor

Run Section

Run and Advance

Section Break

Run

Step

Stop

indexing.mlx

This code sets up the interaction.

1load datafile

2data

3

4

Task 1

5x=data(6,3)

6

Task 2

7x=data(end,3)

8

Task 3

9x=data(end-1,3)

10

Further Practice

data = 7x4

3.00000.53004.0753NaN

18.00001.78006.66782.1328

19.00000.86001.51773.6852

20.00001.60003.63758.5389

21.00003.00004.724310.1570

23.00006.11009.06982.8739

38.00002.54005.30024.4508

x = 9.0698

x = 5.3002

x = 9.0698

WORKSPACE

6/07/2020

Matlab

Command window → can write anything in the command window and execute.

⇒ $z = 3 + 5$

15

Command window is one way to try something and get result faster.

workspace

$z = 3$

$x = 19 * 2 + 2$

Command window.

$y = 3$

$x = 0.8 * 2 + 1.2$

What is Array?

All Matlab variables are arrays. This means that each variable can contain multiple elements in array to store related data in one variable.

ARRAY

column vector

2
3
6
-9

Matrix

2	3
6	-9

row vector

2	3	6	-9
---	---	---	----

Scalar

2

Matrix index → $x(\text{row}, \text{col})$

Course:cisco networking academy-training and event

Topic:IOT

static-course-assets.s3.amazonaws.com/i2loT20/en/index.html#0.0.1.3


Introduction to the Internet of Things

Chapter 0
Course Introduction

0.0 Welcome to I2IoT

0.0.1 Message to the Student

0.0.1.3 More Than Just Information



More Than Just Information

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The material in this course encompasses a broad range of technologies that facilitate how people work, live, play, and learn by communicating with voice, video, and other data. Networking and the Internet affect people differently in different parts of the world. Although we have worked with instructors from around the world to create these materials, it is important that you work with your instructor and fellow students to make the material in this course applicable to your local situation.

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IoT of Things

IoT describes a growing industry of digital technology being harnessed to the Internet in ways that will improve the lives of every person on this planet.

Chapter-1

The Evolution of Digital Transformation:

A growing number of people are connected to the Internet in one way or other.

Digital transformation is the appropriation of digital technology to provide the stage for business and industry to innovate.

