MATLAB Basics Module Quiz Total points 46/52 ?



The respondent's email (amlali98eg@gmail.com) was recorded on submission of this form.

46 of 52 points

✓ In an "if" statement, what is the purpose of the "else" clause? *	1/1
a) To create a loop	
b) To define a default case	
c) To execute an alternative block of code when the condition is not met	✓
O d) To print text	

✓ How many times will the following for loop execute? * for i = 1:5 end	1/1
a) 0 timesb) 1 timec) 5 times	✓
d) Infinite times	

✓	What is the key difference between a "for" loop and a "while" loop in MATLAB?	*1/1
0	a) A "for" loop is used for functions, while a "while" loop is used for variables.	
•	b) A "for" loop executes a fixed number of times, while a "while" loop continues until a condition is met.	✓
0	c) There is no difference; they can be used interchangeably.	
0	d) A "for" loop is faster than a "while" loop.	
/	What is the purpose of the "break" statement in a "for" loop? *	1/1
0	a) To start the loop over	
•	b) To end the loop prematurely	✓
0	c) To increment the loop counter	
0	d) To pause the loop temporarily	
✓	MATLAB is primarily used for word processing. *	1/1
0	a) True	
•	b) False	✓

MATLAB supports the development of standalone desktop applications.	* 1/1
a) True	✓
O b) False	
➤ In a structure, how can you access the data stored in a specific field? *	0/1
a) Using a cell array	
b) Using the "struct" keyword	×
C) By specifying the field name in parentheses	
d) By using square brackets	
Correct answer	
c) By specifying the field name in parentheses	

✓ What is the output of the following MATLAB code? * 1/1 OSAcademy.m × + v = -2:2:10;1 disp(v); a) [-2, 0, 2, 4, 6, 8, 10] b) [-2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10] c) [-2, 4, 10] d) An error occurs In MATLAB, the plot() function is used for 3D data visualization. * 1/1 a) True (b) False What data type can a cell array hold? * 1/1

✓ What data type can a cell array hold? *
 a) Numeric data
 b) Strings
 c) Mixed data types
 d) None of the above

Which MATLAB function is used to create a sequence of numbers in logarithmically spaced intervals?	*0/1
a) logarithm()	
b) linspace()	×
c) logspace()	
d) exponential()	
Correct answer	
o c) logspace()	
The zeros() function in MATLAB is used to create a matrix filled with ones.	*1/1
a) True	
b) False	✓
✓ What is the correct way to create a row vector in MATLAB? *	1/1
a) rowVector()	
(b) [1 2 3]	✓
c) createRowVector()	
(d) (1, 2, 3)	

✓ Which part of a function definition specifies the output of the function? *	1/1
a) Input arguments	
b) Function name	
c) Output arguments	/
O d) Comments	
✓ o concatenate two matrices vertically, which function should be used? *	1/1
a) vertcat()	/
b) addmatrices()	
c) combine()	
O d) concatmatrices()	
✓ Which MATLAB function is used to create a matrix of ones with a specified number of rows and columns?	1/1
a) matrixOnes()	
(b) eye()	
o c) ones()	/
d) createOnesMatrix()	

✓ Which MATLAB function is used to create a linearly spaced vector between two values?	*1/1
a) logspace()	
b) linspace()	~
c) concatenate()	
d) interpolate()	
✓ In a switch statement, what is the purpose of the "case" keyword? *	1/1
a) To specify a variable	
b) To define a default case	
c) To identify a code block to execute	✓
O d) To end the switch statement	
✓ In a switch statement, what happens if none of the "case" condition match the "switch" expression?	ns * 1/1
a) The code under the "otherwise" case is executed.	~
b) An error occurs.	
c) The switch statement continues indefinitely.	
d) The code stops executing.	

The save() function in MATLAB is used to create a new file. *	1/1
a) Trueb) False	✓
✓ In the context of MATLAB, what does "Model-Based Development" refer to?	*1/1
a) Creating 3D models for animations	
b) Developing software models of systems	✓
c) Designing physical prototypes	
d) Building mathematical models for weather forecasting	
MATLAB allows you to create and use functions. *	1/1
a) True	✓
(b) False	

What is the output of the following MATLAB code? * 1/1 OSAcademy.m × + str = 'Hello, MATLAB!'; disp(str(8:12)); 3 a) Hello b) MATLA c)! d) An error occurs ✓ In MATLAB, you can use the rand() function to generate random numbers *1/1 with a specified range. a) True b) False

★ What does MBD stand for? *	0/1
a) Model-Based Development	
b) Model-Based Design	×
c) Modern Business Development	
d) Mathematical Business Design	
Correct answer	
a) Model-Based Development	
➤ How can you access the second element of a cell array named "m	yCell"? * 0/1
How can you access the second element of a cell array named "ma) myCell{1}	nyCell"? * 0/1
	nyCell"? * 0/1
a) myCell{1}	yCell"? * 0/1
a) myCell{1}b) myCell(1)	
a) myCell{1}b) myCell(1)c) myCell(2)	
 a) myCell{1} b) myCell(1) c) myCell(2) d) myCell{2} 	

✓ What is the output of the following MATLAB code? *

1/1

```
OSAcademy.m × +

A = [1, 2, 3; 4, 5, 6; 7, 8, 9];
B = A(2:3, 1:2)';
disp(B);
4
```

- (a) [4, 7; 5, 8]
- b) [1, 4; 2, 5]
- c) [5, 4; 8, 7]
- d) An error occurs
- ★ The while loop in MATLAB is used for conditional execution of a block of *0/1 statements.
- a) True
- **b)** False

X

Correct answer

a) True

What is the output of the following MATLAB code? * 1/1 OSAcademy.m X A = [1, 2, 3; 4, 5, 6; 7, 8, 9];B = A(2:3, 1:2);disp(B); a) [2, 3; 5, 6] b) [1, 2; 4, 5] (a) (a) (b) (b) (c) [4, 5; 7, 8] d) [2, 5; 3, 6] ✓ What is the purpose of the eye() function in MATLAB? * 1/1 a) To create a matrix filled with zeros b) To generate a random number

c) To create an identity matrix

d) To perform complex mathematical calculations

✓ Which of the following is a specialized matrix function in MATLAB? *	1/1
a) ones()b) email()c) playAudio()d) sendData()	✓
✓ In a MATLAB structure, data is stored in: *	1/1
a) Cellsb) Fieldsc) Arraysd) Functions	✓
✓ What is the primary purpose of using cell arrays in MATLAB? *	1/1
 a) Storing numbers b) Storing only text c) Storing data of mixed types d) Displaying images 	✓

In MATLAB, the command history can be accessed using the up and down arrow keys.	*1/1
a) Trueb) False	✓
✓ What is the primary purpose of the MATLAB Command Window? *	1/1
a) To display images	
b) To execute commands and interact with MATLAB	✓
c) To compose and send emails	
d) To play audio files	

✓ What is the output of the following MATLAB code? * 1/1 OSAcademy.m × + x = [1, 2, 3, 4];y = [5, 6, 7, 8]; $z = x \cdot * y;$ disp(z); (a) [5, 12, 21, 32] b) [1, 2, 3, 4] c) [5, 6, 7, 8] d) [6, 12, 21, 32] ✓ The if condition in MATLAB is used to create loops. * 1/1 a) True (b) False

B

d) [1, 8, 27, 64, 125]

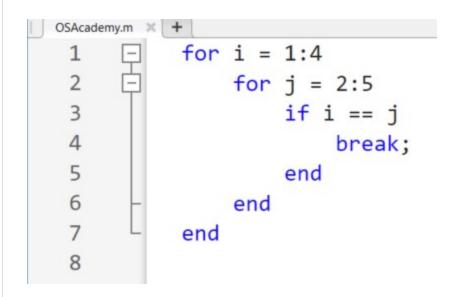
✓ What is the primary purpose of the break statement in MATLAB? * 1/1
 a) To end the program
 b) To continue to the next iteration of a loop
 c) To exit a loop prematurely
 d) To execute a specific block of code

✓ Which keyword is used to define a MATLAB function? *	1/1
a) func	
b) def	
c) function	✓
O d) create	
✓ What is the purpose of an "if" statement in MATLAB? *	1/1
a) To create loops	
b) To define functions	
c) To make decisions	✓
O d) To print text	
The legend() function in MATLAB is used to generate a plot. *	1/1
a) True	
b) False	✓

✓ What is the output of the following MATLAB code? * 1/1 OSAcademy.m × + a = 3;b = 5;c = a + b;disp(['The result is: ', num2str(c)]); 5 a) 8 b) The result is: 8 c) An error occurs d) The result is: 35 What does the horzcat() function do in MATLAB? * 1/1 a) Concatenates two matrices horizontally b) Calculates the square root of a number c) Converts text to lowercase d) Sorts elements in an array

✓	In MATLAB, which keyword is used to check for multiple conditions in an "if" statement?	*1/1
0	a) elif	
•	b) elseif	✓
0	c) else	
0	d) ifelse	
/	How is the loop counter typically incremented in a "while" loop? *	1/1
0	a) Automatically by MATLAB	
0	b) It is not incremented; "while" loops use different control structures.	
•	c) Manually within the loop	✓
0	d) Incrementing is not required in a "while" loop.	

X How many times will the following for loop execute in MATLAB? * 0/1



- (a) 1
- (b) 4
- (c) 3
- () d) 2

Correct answer

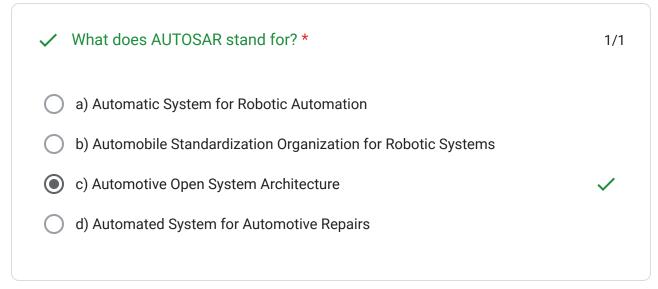
b) 4

✓ The MATLAB workspace displays variable names, formats, and allows for *1/1

_____ saving.

- a) Data
- b) Code
- c) Workspace
- d) Functions

X



```
What is the output of the following MATLAB code? *
                                                          1/1
OSAcademy.m 💥
             k = 0;
 1
             for i = 2:6
                   if i == 4
                        continue;
                  end
                   k = k + i;
             end
             disp(k);
 a) 11
 b) 12
c) 13
d) 16
```

What is the output of the following MATLAB code? *

1/1

```
OSAcademy.m * + A = [1, 2, 3; 4, 5, 6; 7, 8, 9];

A = [1, 2, 3; 4, 5, 6; 7, 8, 9];

B = A' * 2;

disp(B);
```

- a) [2, 8, 14; 4, 10, 16; 6, 12, 18]
- b) [1, 2, 3; 4, 5, 6; 7, 8, 9]
- c) [2, 4, 6; 8, 10, 12; 14, 16, 18]
- d) An error occurs

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0 of 0 points

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