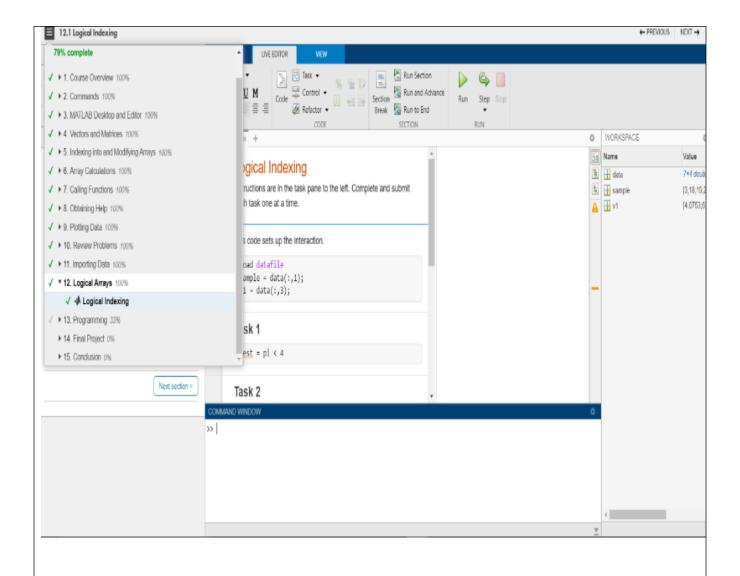
DAILY ASSESSMENT FORMAT

Date:	09-07-2020	Name:	Abhishek
Course:	MATLAB Onramp	USN:	4al17ec001
Topic:	Review ProblemsImporting dataLogical Arrays	Semester & Section:	6 & 'A'
Github Repository:	Abhishek-online-courses		

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Importing Data:

- Importing data in MATLAB means loading data from an external file.
- The **importdata** function allows loading various data files of different formats.
- It has the following five forms -

1	A = importdata(filename) Loads data into array A from the file denoted by filename.
2	A = importdata('-pastespecial') Loads data from the system clipboard rather than from a file.
3	A = importdata(, delimiterIn) Interprets delimiterIn as the column separator in ASCII file, filename, or the clipboard data. You can use delimiterIn with any of the input arguments in the above syntaxes.
4	A = importdata(, delimiterIn, headerlinesIn) Loads data from ASCII file, filename, or the clipboard, reading numeric data starting from line headerlinesIn+1.
5	[A, delimiterOut, headerlinesOut] = importdata() Returns the detected delimiter character for the input ASCII file in delimiterOut and the detected number of header lines in headerlinesOut, using any of the input arguments in the previous syntaxes.

Logical Arrays

- MATLAB offers two types of logical operators and functions -
 - ✓ Element-wise these operators operate on corresponding elements of logical arrays.
 - ✓ *Short-circuit* these operators operate on scalar, logical expressions.
- Element-wise logical operators operate element-by-element on logical arrays.
- The symbols &, |, and \sim are the logical array operators AND, OR, and NOT.
- Short-circuit logical operators allow short-circuiting on logical operations.
- The symbols && and || are the logical short-circuit operators AND and OR.

Date:	09-07-2020	Name:	Abhishek
Course:	Introduction to IOT	USN:	4al17ec001
Topic:	Chapter 5	Semester	6 & 'A'
		& Section:	

AFTERNOON SESSION DETAILS

Image of session



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Types of Data

- Data generated by computers and digital devices is still groups of 1s and 0s which has not changed.
- What has changed is the quantity, volume, variety, and immediacy of the generated data.
- Today, gathered data is taking on new characteristics.
- The digitized world has opened the floodgates for data gathering.
- IoT sensor-enabled devices are collecting more and more data of a personal nature.

Physical Security

- Today's data centers store vast quantities of sensitive, business-critical information; therefore, physical security is an operational priority.
- Physical security not only protects access to the premises, but also protects people and equipment.
- For example, fire alarms, sprinklers, seismically-braced server racks, and redundant heating, ventilation, and air conditioning (HVAC) and UPS systems are in place to protect people and equipment.
- Physical security within the data center can be divided into two areas, outside and inside.
 - ✓ Outside perimeter security This can include on-premise security officers, fences, gates, continuous video surveillance, and security breach alarms.

✓ Inside perimeter security - This can include continuous video surveillance, electronic motion detectors, security traps, and biometric access and exit sensors.

Smart Homes

- Smart home technology has become very popular and its popularity is increasing every year as the technology evolves.
- The cool part is it to check on the dog or to verify that your teenagers are doing their homework after school by activating your home security cameras.
- Even virtual assistants such as Apple SIRI, Amazon Echo, or Google Home can be security risks.
- People use these devices to turn on music, adjust room temperatures, order products on -line, and get directions for where they are going.
- It is possible that personal information such as passwords or credit card information could be leaked.
- Fortunately many of the security flaws of the early smart technology sensors have already been discovered.
- Developers are working to correct the flaws and improve security measures to protect their systems from attack.