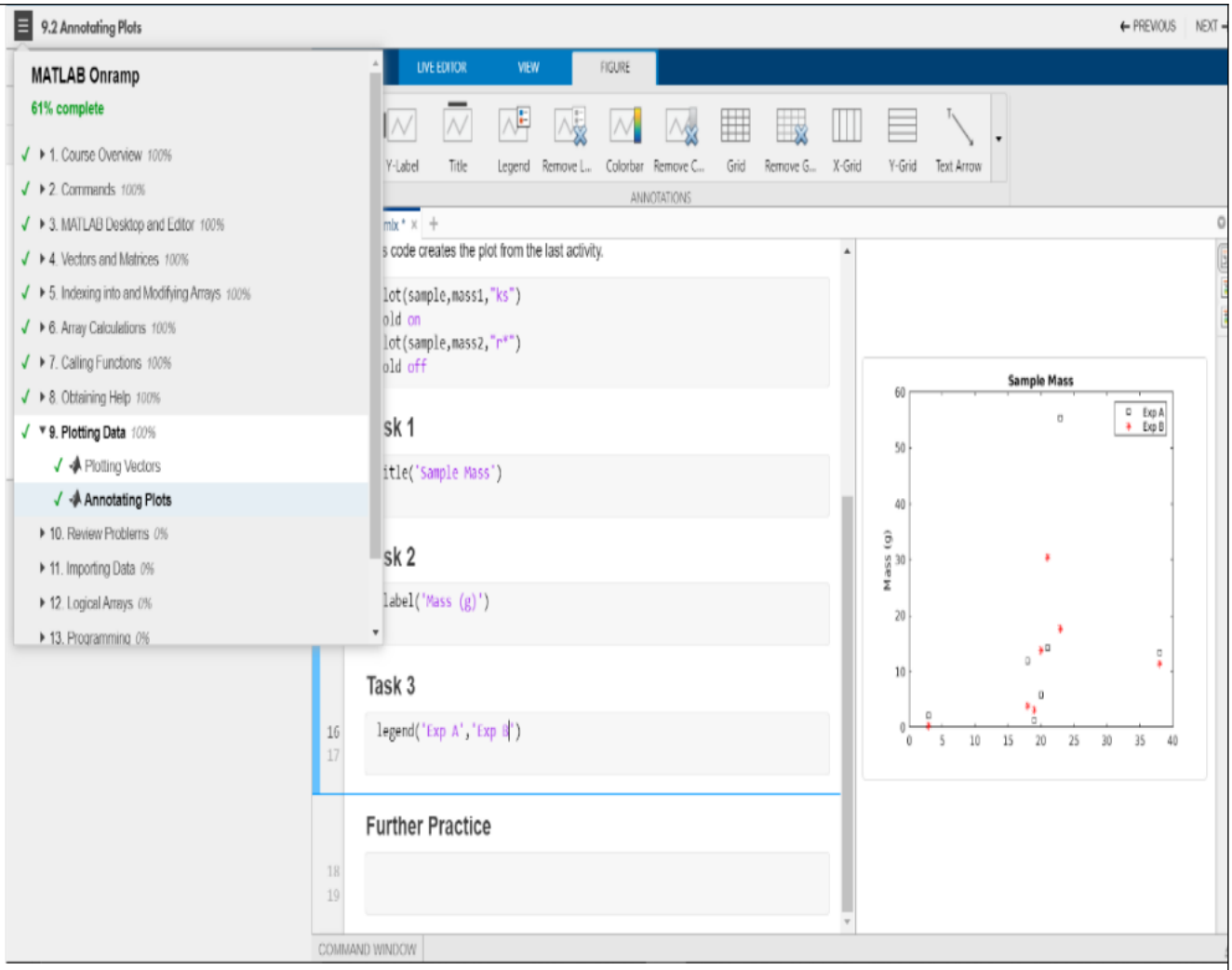
DAILY ASSESSMENT FORMAT

Date:	08-07-2020	Name:	Abhishek
Course:	MATLAB Onramp	USN:	4al17ec001
Topic:	• Calling Functions • Obtaining Help • Plotting data	Semester & Section:	6 & 'A'
Github Repository:	Abhishek-online-courses		

FORENOON SESSION DETAILS
Image of session



Report –

MATLAB Plot:

- To plot the graph of a function, we need to take the following steps –
  - ✓ Define x, by specifying the range of values for the variable x, for which the function is to be plotted
  - ✓ Define the function, y = f(x)
  - ✓ Call the plot command, as plot(x, y)

- MATLAB allows us to add title, labels along the x-axis and y-axis, grid lines and also to adjust the axes to spruce up the graph.
    - ✓ The xlabel and ylabel commands generate labels along x-axis and y-axis.
    - ✓ The title command allows us to put a title on the graph.
    - ✓ The grid on command allows us to put the grid lines on the graph.
    - ✓ The axis equal command allows generating the plot with the same scale factors and the spaces on both axes.
    - ✓ The axis square command generates a square plot.

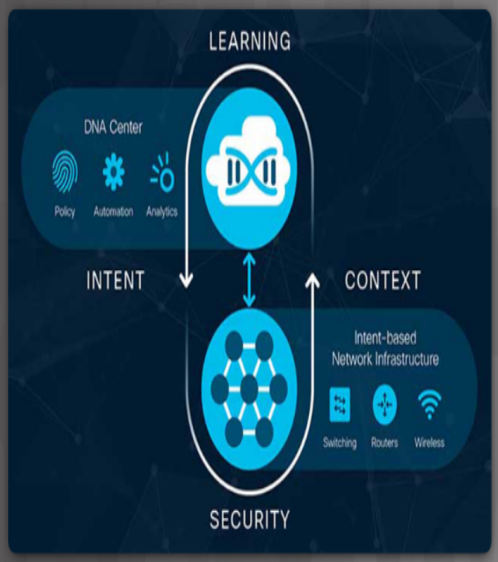
- Setting Colors on Graph,

Code	Color
w	White
k	Black
b	Blue
r	Red
c	Cyan
g	Green
m	Magenta
y	Yellow

Date:	08-07-2020	Name:	Abhishek
Course:	Introduction to IOT	USN:	4al17ec001
Topic:	Chapter 4	Semester & Section:	6 & 'A'

AFTERNOON SESSION DETAILS
Image of session

Intent-based Networking



What Is Intent-Based Networking (IBN)

For a business to survive, it must be agile and respond quickly to the needs and demands of its customers. Businesses are increasingly dependent on their digital resources to meet customer demands, so the underlying IT network must also be responsive enough to quickly adapt to these requirements. This normally involves adjustments to many systems and processes. These adjustments may include changes to security policies and procedures, business services and applications, and operational policies.

With traditional networks, many different components must be manually adjusted to meet ever-changing business requirements. This requires different technicians and engineers to ensure that the systems are changed in a manner that allows them to work together to accomplish their goal. This

Report –

Automation

- Automation is any process that is self-driven and reduces, then eventually eliminates, the need for human intervention.
- Automation was once confined to the manufacturing industry.
- Highly repetitive tasks such as automobile assembly were turned over to machines and the modern assembly line was born.
- Many devices now incorporate smart technology to alter their behavior under certain circumstances.
- This can be as simple as a smart appliance lowering its power consumption during periods of peak demand or as complicated as a self-driving car.

Artificial Intelligence and Machine Learning

- **Artificial Intelligence (AI)** is the intelligence demonstrated by machines.
- This is in contrast to natural intelligence which is the intelligence displayed by living organisms.
- AI uses intelligent agents that can perceive their environment and make decisions that maximize the probability of obtaining a specific goal or objective.
- AI refers to systems that mimic cognitive functions normally associated with human minds such as learning and problem solving.

- **ML** is a subset of AI that uses statistical techniques to give computers the ability to "learn" from their environment.
- This enables computers to improve on a particular task without being specifically programmed for that task

Intent-Based Networking

- **Intent-based networking (IBN)** is a form of network administration that incorporates artificial intelligence (AI), network orchestration and machine learning (ML) to automate administrative tasks across a network.
- The goal of IBN is to reduce the complexity of creating, managing and enforcing network policies and reduce the manual labor associated with traditional configuration management.
- The IBN management application will then determine which devices and routes match the business intention and make the appropriate configuration changes automatically.
- Intent-based networking and software-defined networking (SDN) are similar in many aspects.
- Both approaches rely on a centralized controller to manage distributed devices on the network instead of individually managing each device from its own management console.