DAILY ASSESSMENT

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Course:	CISCO	USN:	4AL17EC091
Topic:	Chapter 4	Semester & Section:	6th Sem 'B' Sec
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FORENOON SESSION DETAILS

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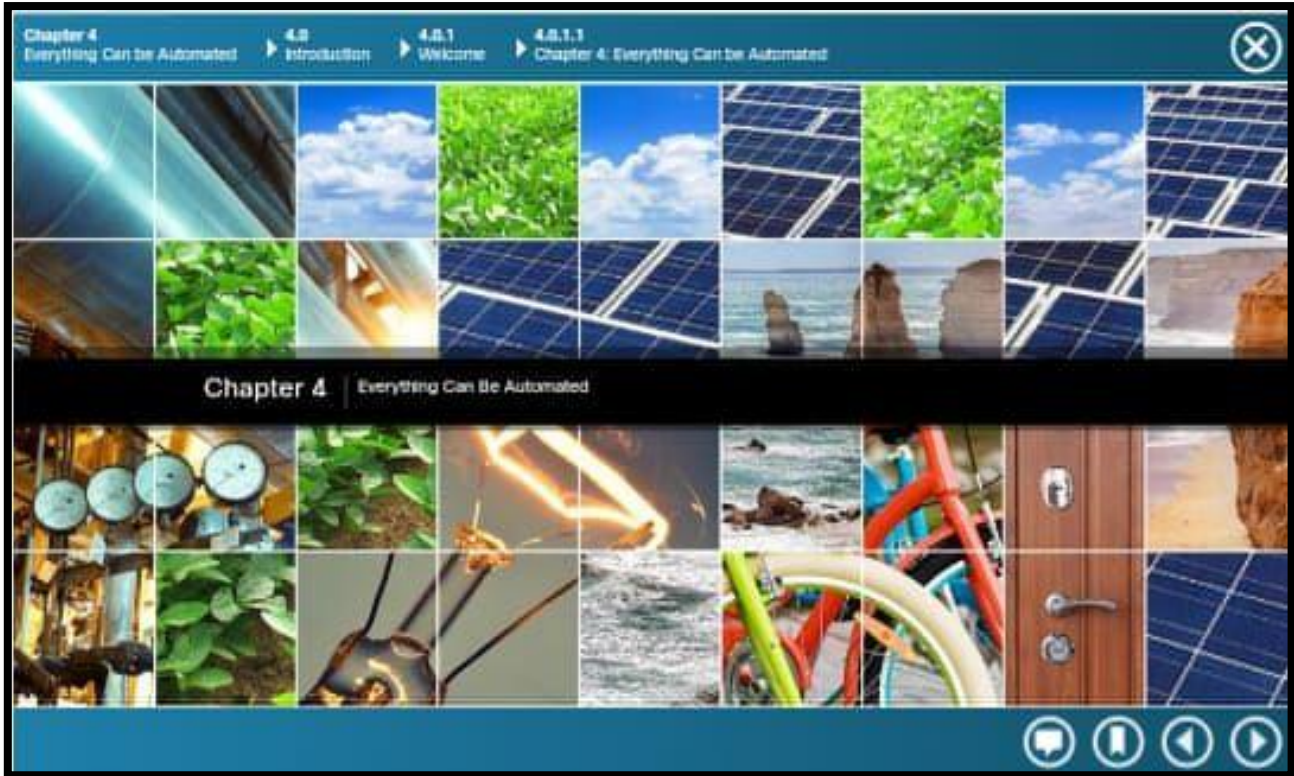
Report – Report can be typed or hand written for up to two pages.

CHAPTER 4:

What is 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.
- ❖ Machines are excellent at repeating the same task without fatigue and without the errors that humans are prone to make in such jobs.
- ❖ This results in greater output, because machines can work 24 hours a day without breaks. Machines also provide a more uniform product.
- ❖ The IoT opens up a new world in which tasks previously requiring human intervention can become automated.

What Is 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.
❖ Some of the tasks that currently are deemed to require a degree of AI are autonomous cars, intelligent routing in content delivery networks, strategic game playing, and military simulations.

Summary:

❖ This chapter began by discussing automation.
❖ Automation is any process that is self-driven and reduces, then eventually eliminates, the need for human intervention.
❖ The IoT opens up a new world in which tasks previously requiring human intervention can become automated.
❖ Many devices now incorporate smart technology to alter their behavior under certain circumstances.
❖ Some examples of smart technology can be found in smart homes and buildings, cities, a smart power grid, and smart cars.