**DAILY ASSESSMENT FORMAT**

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| **Date:** | **09/07/2020** | **Name:** | **Lepakshi T V** |
| **Course:** | **MATLAB** | **USN:** | **4AL17EC044** |
| **Topic:** | * **Review problems** * **Importing data** * **Logical arrays** | **Semester & Section:** | **6th sem A sec** |
| **Github Repository:** | **Lepakshi-044** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Report – Report can be typed or hand written for up to two pages.**   * Review Problems * Bring together concepts that you have learned with a project. * Project - Electricity Usage * Project - Audio Frequency * Importing Data * Bring data from external files into MATLAB. * Import Tool * Importing Data as a Table * Logical Arrays * Use logical expressions to help you to extract elements of interest from MATLAB arrays. |

**DAILY ASSESSMENT FORMAT**

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| **Date:** | **09/07/2020** | **Name:** | **Lepakshi T V** |
| **Course:** | **Introduction to IOT** | **USN:** | **4AL17EC044** |
| **Topic:** | **Chapter 4** | **Semester & Section:** | **6th sem A sec** |
| **Github Repository:** | **Lepakshi-044** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Report – Report can be typed or hand written for up to two pages.**   * 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. As we have seen, the IoT allows the collection of vast amounts of data that can be quickly analyzed to provide information that can help guide an event or process. * As we continue to embrace the benefits of the IoT, automation becomes increasingly important. Access to huge amounts of quickly processed sensor data started people thinking about how to apply the concepts of machine learning and automation to everyday tasks. * Automation is often tied to the field of robotics. Robots are used in dangerous conditions such as mining, firefighting, and cleaning up industrial accidents, reducing the risk to humans. They are also used in such tasks as automated assembly lines. * One of the features of the IoT is that it enables the collection of extremely large pools of data that can “teach” programs how to respond in certain conditions * Speech Recognition - Many different companies now offer digital assistants which allow you to use speech to communicate with a computer system. Apple, Microsoft, Google and Amazon all offer this service. These companies not only allow commands to be given verbally, but offer speech-to-text capabilities. * Product Recommendation - Systems build up a customer profile and recommend products or services based on previous patterns. Users of Amazon and eBay receive recommendations on products. Organizations such as LinkedIn, Facebook, and GooglePlus recommend users you may wish to connect with. * Shape Recognition - Programs exist that allow crude hand-drawn diagrams and notes to be converted to more formal diagrams and text. This allows the shapes and lines of hand writing to be converted to more formal text which can then be searched and analyzed. * Credit Card Fraud Detection - A profile is constructed about the purchasing patterns of a client. Any deviation from these patterns triggers an alert and the system automatically takes action. This action ranges from denying the transaction to notifying the authorities. * Facial Recognition - Security cameras are everywhere, from stores and streets to airports and transportation hubs. These cameras continually scan the crowds, normally watching for dangerous or illegal activities, but they can also be used to identify and track individuals. The system builds a pattern of specific facial features and then watches for a match to these facial patterns triggering some action. |