**DAILY ASSESSMENT FORMAT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date:** | **02-Jun-2020** | **Name:** | **Vishwesh V Bhat** |
| **Course:** | **Course on Control Systems** | **USN:** | **4AL18EC059** |
| **Topic:** |  | **Semester & Section:** | **4th SEM and ‘A’ SEC** |
| **Github Repository:** | **Vishwesh-V-Bhat-lockdwn-learnings** |  |  |

|  |
| --- |
| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **TOPICS COVERED:**   1. **Introductory session: Considered a simple closed network to define and identify:** 2. **Node - is a point on the network to which 2 or more elements are connected.** 3. **Branch - is a path in a network that traces from one node to the next node.** 4. **Loop/mesh - is a closed path that traces from one point to the same point.(overlapping loop was also identified).** 5. **Discussed about Branch currents, Loop currents and Node voltage.** 6. **Graph theory (also known as Network topology):**   **A few definitions were discussed -**   1. **Degree of nodes - number of branches connected to a single mode.** 2. **Tree - Interconnected open set of branches that includes all nodes of the given graph.** 3. **Tree Branch - Branches to a given tree are called tree branches.** 4. **Tree link - The remaining branches of a tree branch is called a tree link.** 5. **Relation between a tree branch and a tree link:**   **N is nodes**  **N-1 is tree link**  **L is total links**  **L = B-N+1; where B is number of branches.** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date:** | **02-Jun-2020** | **Name:** | **Vishwesh V Bhat** | |
| **Course:** | **Python by Udemy** | **USN:** | **4al18ec059** | |
| **Topic:** | 1. **Improvising the English dictionary code** | **Semester & Section:** | **4th SEM & ‘A’ SEC** | |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session** | | | |
| **PROBLEM STATEMENT:**   1. **The dictionary provided as resource in the Udemy course did not fetch meanings for many words like “Grade”, “Bengaluru”, etc… as per user experience.** 2. **The .JSON file for the first dictionary was provided as resource in the Udemy course.**   **I downloaded another .JSON file of compact Webster’s English dictionary and included this new data as data1 in the code. It was structured in such a way that the entered word would first be searched for in the 1st dictionary and then if not found would go for the second dictionary. So I now have 2 dictionaries in the code. And the dictionaries cover all the words.**   1. **After searching for the meaning of a word, the code would terminate and we had to execute the code again to access dictionary. This would kill users time. So I included a while loop in the code so that the code would run until the user wanted to terminate the code. To terminate the code I initialized “-”, so when ever the user typed “-” while searching the word, he/she will terminate the code.** 2. **As the code asks for clarification whenever there is a typo by the user, by adding another dictionary to the code, we can have a larger range of close matches / similar words.**   **Improvised code:**  **123**  **. .**  **. .**  **. .**  **. .**  **456** | | | |