**Final-term Lab Assessment Task**

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| **Submitted By:** | | |
| **Name** | **ID** | **Task Completed** |
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**Parameters:**

Consider, your ID = **AB-CDEFG-H.**

[please use any random value if assigned value comes out zero]

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| **VAL1** = EFG\*100 | **VAL2** = GH\*10 |
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**Problem Statement:**

**Suppose, you want to send a message which contains your FIRST MEMBER NAME. Develop a MATLAB code to show the transmission process to send the information from SENDER to RECEIVER. Available frequency ranges for the transmission: 1.8 - 2.5 GHz**

**Hint:**

1.Encode the message.

2. Convert binary bit stream from parallel to serial transmission.

3. Convert data to signal using at least **VAL1** sample data.

4. Now, modulate the digital signal (using any Digital to Analog Conversion except BASK) to send via a transmission channel.

5. The signal to noise ratio of the channel is **VAL2**.

6. Demodulate the received signal.

7. Convert the binary data to retrieve the message.

**Instructions:**

1. Task can be submitted individually or in Group (not more than 4 person)
2. **For Group Submission:** You can use one of the group member ID for parameter calculation. Anyone from the group can submit the task (no need of multiple submission)
3. Plagiarism is strictly prohibited.
4. Please use MATLAB software to accomplish the project.
5. Use this file as Cover Page.
6. In your submission file, you must add three sections: Cover page, Code & Output.
7. Finally submit it in PDF format.