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SDR Design for HD Video Transmission

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OTHER GROUP MEMBERS

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OBJECTIVES ADDRESSED IN WEEK 2

1. Adapted to the MATLAB environment
2. Implemented a basic OFDM link, which also uses 256-QAM.
3. Broke the problem into modules, and set up an environment for easy testing and upgrading.

HIGHLIGHTS

We transitioned to MATLAB because of the issues faced while using GNU Radio. We faced issues with file handling in Simulink. We resolved the problem using a binary file read/write block pair. We then went on to implement OFDM, and achieved the goal for the week.

NEXT OBJECTIVE

- Upgrade of OFDM to MIMO-OFDM
- Improve the choice of parameters in the system
- Channel modeling