${\it In \ The \ Name \ of \ God}$ Computer Engineering Department of Amirkabir University of Technology

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All of the codes are in the proteus and simulated in the protues. Note that all of the sections of the first question were merged into a single file. And all of the requirments are implemented inside a single file.

For the second section all of the codes of are put into the seperate directory. And they are also ran in protues.