

## Task-related notes

1. Your submission should include:
  - a. Code Folder for .c and .h files (and Assumptions.txt file if needed)
  - b. Video Folder for your explanation video
  - c. Screenshots Folder for your simulation.
2. In the video, you should briefly explain your all work, beside trying the 4 test cases of data frame mentioned at the task pdf file, and it will be appreciated if you found another test cases with different behaviors and mention them in the video. [Video length, maximum is 15 mins, and minimum is 5 mins]
3. Completion of the entire task is not mandatory for delivery; perform to the extent of your capabilities. In case you didn't finish the task don't worry and submit all what you did up to the deadline, and mention it is an in-complete submission in the comment field at the submission form, and we will take it in consideration.
4. While online resources are permissible, it is mandatory that you understand the content you are including into your project. Employing code without a comprehensive understanding poses a significant concern.
5. Please, read carefully the whole document and check again the deliverables section at the end of file.
6. You can use any microcontroller in implementing your task (But ARM based MCUs are a huge plus!)
7. You can use any simulation tool, but in the case of AVR, you should use Proteus.
8. Commenting the code very well is a MUST.
9. Plagiarism is highly penalized, so be careful not to copy another's solution or let somebody copy yours.