Course Project: Electronic Instruments

Project General Rules:

- This project is out of 10 points.
- Each team must not exceed 3 members.
- Due Date is end of week 11.
- You are required to deliver:
  - Softcopy of the report
  - 5 mins video.
- Any missing item from the 2 items above will be penalized in the project grading.
- The report must not exceed 10 pages including the cover page. Each extra page receives -1 mark.
- The video duration must not exceed 5 minutes. Each extra minute receives -2 mark.
- The group must appear physically in the video and their names should be clear on the end of the video for grading.
- Delayed delivery of the group members names, reports, or video receives a penalty of -3 mark/day.
- Any duplicated project will take 0 out of 10.

Project description

1) Form a group of 2-3 students.
2) Each group should select one of the following electronic instruments

   - Digital Logic Analyzer
   - Digital Spectrum Analyzer

3) Send an email to your TA with the group members and the chosen instrument. This step must be done by the end of week 8.
4) Use LabVIEW to build the instrument.
5) Deliver a softcopy report explaining all the steps of the design and several examples as well as user manual for the instrument.
6) Prepare and deliver a YouTube video (either in English or Arabic) to show the instrument similar to the below videos

   - https://www.youtube.com/watch?v=MrAH8fCWXXE
   - https://www.youtube.com/watch?v=ZMPkOrXzaoU
   - https://www.youtube.com/watch?v=hKiOQXfzdzI