EECS 198 Final Project (25 points)

The project is an open-ended Python project. You will have to work in teams of 3-4 people, and implement a system in Python that performs a particular task.

Project Requirements

The project accounts for 25% of the final grade. In the points scheme used for the class, this means the project is worth 25 points. There are six parts associated with the project:

1. Meet with Laura (3 points) - Meeting slots are available from 10/22 through 10/30
2. Project Proposal (3 points) - Submit on Canvas by 11/2 (one submission per team)
3. Final Python System (8 points) - Submit on Canvas by 12/6 (one submission per team)
4. Final Presentation (3 points) - Present in class on 12/6; submit on Canvas by 12/6 (one submission per team)
5. Final Report (7 points) - Submit on Canvas by 12/6 (one submission per team)
6. Peer Evaluation (1 point) - Submit on Canvas by 12/6 *(one submission per person)*

For parts 2-6, the class policy of a maximum three late days with a 10% penalty for each day late applies. For part 1, If you fail to meet with Laura by Tuesday, October 30 (or contact her by Tuesday, October 23 letting her know that none of the times work for your team), you will receive a 20% late penalty.

****All team members are expected to contribute equally to the final project. This means that everyone should contribute to writing the Python code, presenting during the in-class presentation, and writing the final report. Each person will be graded on how well the team does as a whole, as well as what their individual contribution was.**

Part 1: Meet with Laura (3 points)
Tuesday, October 22 through Tuesday, October 30

Begin by forming a team of 3-4 people. (There will be some opportunity to form teams in class, and you may also use Piazza to help you find team members.) With your team, come up with a project idea. Your idea may be an original idea or it may be an idea that we talked about in class (slides available on Canvas).

You must schedule a meeting with Laura to discuss your idea and the scope of your project. To schedule this meeting, use the Google calendar available at https://calendar.google.com/calendar?cid=dW1pY2guZWR1X2QyOWc4ODA3NTk3Y3QycTc2dWE1bWU3cjQwQGdyb3VwLmNhbGVuZGFyLmdvb2dsZS5jb20. On the calendar, there are 30-minute slots marked “EECS 198 Meeting Slot”. Choose an empty slot, and edit the event, changing the name of your event to be the names of the people on your team. All meetings will be held either in Laura’s office (BBB 3921) or in BBB 1695, and this is indicated on the calendar event.

Meeting slots are available from Monday, October 22 through Tuesday, October 30. If it's easier for your team, the meeting can also be remote through Google Hangouts (if you'd like this, e-mail Laura and let her know). If none of the scheduled meeting times work for the whole team, e-mail Laura *by Tuesday, October 23* to find a new time.

Part 2: Project Proposal (3 points)
Due: Friday, November 2 at midnight

The project proposal should include the following pieces of information:

- Project description and scope (e.g., What are you trying to build? What will your Python program do at the end of the day? What features will it have?)
- Team members

Your project proposal should be at least one page, single-spaced. Upload this document to Canvas (only one submission per team is needed).

Part 3: Final Python System (8 points)
Due: Thursday, December 6 at midnight

Upload your final Python system to Canvas as a zip file. Each system should include all of the Python code, any datasets used (if applicable), and a README briefly explaining how to run the code. All projects must be written in Python 2. You can use external libraries as needed (provided they do not make the project trivial). Please make sure that your system runs with no errors before submitting it. If your system doesn't run without crashing, then you will receive 0% credit for it.

The grade for this part will be based on the quality of your implementation (which includes code documentation and a complete README file). Good code documentation includes comments at the top of each Python file explaining the purpose of the file and the authors, as well as comments explaining any functions, and comments periodically throughout the code explaining what is happening.

Part 3: Final Presentation (3 points)
Due: in-class Thursday, December 6 (submit slides on Canvas by Thursday, December 6 at midnight)

You should prepare a 5-minute oral presentation to present in class on Thursday, December 6. Your presentation should have slides to go along with it. Demos are also encouraged (but not mandatory). The presentation should cover the highlights of your project. Each person on the team should present part of the project. Every team will have 5 minutes to present, plus 2 minutes for questions.

Upload your presentation slides to Canvas by Thursday, December 6 at midnight (only one submission per team is needed).

Part 4: Final Report (7 points)
Due: Thursday, December 6 at midnight

The final report should include a description of the complete work on the project. It should include:

- A thorough description of your Python system and what it does.
- Challenges that you encountered while building your Python system.
- Conclusions and main contributions of your project.
- Possible directions for future work.

The final report should be at least three pages and at most six pages long, single-spaced. Upload this document to Canvas (only one submission per team is needed).

Part 5: Peer Evaluation (1 point)
Due: Thursday, December 6 at midnight

Each member of the team is required to upload peer evaluations to Canvas. The peer evaluation form is attached. Please fill out this form for *each member for your team (including yourself)* (e.g., if your team is three people plus you, then you should submit four copies of this form on Canvas).

Peer Evaluation Form

Please fill out this form once for each person of your team, including yourself.

Name of person being evaluated: _____

Please rate this person on the following attributes.
Values: 1= Strongly Disagree, 2=Disagree, 3=Agree, 4=Strongly Agree

_____ This person attended group meetings regularly and arrived on time.

_____ This person contributed meaningfully to group discussions.

_____ This person did work in a quality manner.

_____ This person did her share of the work for this project.

Please list specific contributions that this person made to the project proposal, presentation, report, and Python system:

Any other comments to add about this person?