Retrospective Write-Up

Team Name:
Py Five

Platform/Language:
Python

Team Members:
Ayah Alkhatib, Kyle Curry, Kristi Daigh, Ethan Lefert, and Clare Meyer

Work Division
The team discussed the plan and how we wanted the project to be done, every team member chose his own part, there was no obligations and the work distribution went smoothly. All group members contributed to each class but each person had focuses at different points in the project. For example, we began with Ayah designing the menu, Clare creating the board, Kristi designing the Square object, and Ethan and Kyle working to design/implement board and mine functions. After the groundwork was laid, we approached debugging and finalization issues as a group.

Project Challenges
- **Slow start:** We were not able to meet over labor day and our availability did not allow us to meet until Wednesday, which made for a slow start. We overcame this by investing a significant amount of time on the latter half of the first week.
- **Tkinter:** We attempted to implement Minesweeper with the Python UI, Tkinter, but we found that learning Python and Tkinter in tandem was confusing so we opted to work on Tkinter on a later project.
- **GitHub:** Pulling and pushing things correctly was a challenge throughout. We overcame this by continuing to work at it as well as doing and sharing research on proper techniques.
- **Naming conventions:** At the beginning of the project, many of us were using Upper Camel Casing conventions to name variables and files but Python PEP8 calls for the use of underscores so we had to retrospectively change variables and file names.
- **Project Size:** This project was difficult to split up. With five members there were many times one or more team member was waiting on code from another in order to write theirs. As we move forward we will hopefully not have to work on top of each other.

Features (That Missed the Demo)
- **Interface:** The only thing that did not completed in the demo version is the interface. As mentioned before, it was challenging learning Python and Tkinter in the same time, so we ended up demo our minesweeper in terminal instead of using a webpage as we planned.
- **Executable:** We learned how to implement an executable at the very end and didn't have a chance to implement it for this project.

Future Changes
- **Work Plan:** Planning in the sense of specific methods for specific people, and overall plan how each component of the project will work together.
- **Syntax Plan:** Discussing commentation and naming conventions before starting
- **Commenting:** Using comments in our code so teammates do not have to ask each other what their code does as well as making sure that we don't have people wasting time writing checks we already have. Also, specific comments for test and temporary code.
- **Branching:** Using Git's branching options to implement new features or a new way of writing and organizing what is already written.

Meeting Log
*see below

PROJECT 1
MEETING LOG

DATE	TIME PERIOD	Location	MEMBERS	TASKS ACCOMPLISHED	NOTES	
8/31/18	11:30AM - 11:50AM	Eaton	All	Scheduled Meeting (9/5/18 @12PM)	Become familiar with python before next meeting	
9/5/18	11:40AM - 12:50PM	Eaton	All	Created GitHub, Developed conceptual plan (Tkinter)	Familiarize with Tkinter, Practice populating menu/board	
9/6/18	4:00PM - 6:20PM	Leep2	All	Troubleshooted GitHub, Ditched Tkinter for Terminal, Assigned tasks	Goal to have working project by Wednesday, Decide Square object vs. multiple array strategy	
9/7/18	8:00AM - 11:00AM	Leep2	All	boardFunctions, square, num_mines_adj, and recursive algorithm design	Research use of Square object in 2D list	
9/7/18	11:40AM - 11:50AM	Eaton	All	assigned weekend tasks		
9/10/18	11:40AM - 11:50AM	Eaton	All	Introduced Doxygen, Debugged functional differences	Set up Doxygen, Need to switch to Python format	
9/10/18	1:00PM - 3:00PM	Leep2	All	Reviewed CodeFlow plan, combined/debugged code	File names need to be changed to abide by PEP8	
9/11/18	12:15PM - 2:15PM	Leep2	Ethan, Kyle, Kristi, Clare	Debugging reveal(), flagging		
9/12/18	1:00PM - 3:00PM	Leep2	All	Realigning goals/tasks, rethinking menu() and reveal()		