FinTech Unit 5 Homework: Grading Rubric

Criteria	Ratings			
Personal Finance Planner • Collect Crypto Prices Using the requests Library • Collect Investments Data Using Alpaca: SPY (stocks) and AGG (bonds) • Savings Health Analysis	**35 Points Mastery** • Completed 3 out of 3 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenarios • Code is free of bugs	**34 > 28 Points Approaching Mastery** • Completed 2 out of 3 of requirements • Code runs without error • Code produces results as expected 80% of the time	**28 > 23 Points Progressing** • Completed 1 out of 3 requirements • Code runs without error • Code produces results, but not necessarily the correct results	**23 > 0 Emerging** • Completed 0 out of the 3 requirements • No submission • Code runs with error
Retirement Planning • Monte Carlo Simulation with 500 runs • Plot Monte Carlo simulation results • Plot the probability distribution and confidence intervals • Retirement Analysis	**35 Points Mastery** • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenarios • Code is free of bugs	**34 > 28 Points Approaching Mastery** • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time	**28 > 23 Points Progressing** • Completed 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results	**23 > 0 Emerging** • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Coding Conventions/Formating	**10 Points Mastery** • Imports are at the top of the file, just after any module comments and docstrings, and before module globals and constants. • Function names are lowercase, with words separated by underscores • Variable names follow the same convention as function names. • Code follows (DRY) principals, no repetition, maintainable and highly reusable code.	**9 Points Approaching Mastery** • Variable names are specific and descriptive of the information held by the variable • Imports are within the top of file	**8 Points Progressing** • Code lacks proper indentation and length convention - Limit all lines to a maximum of 79 characters. • Variable names are generic and not descriptive of the information held by the variable • Imports and files are located in a non-standard location	**8 > 0 Emerging** • Code is excessively lengthy • Variable names are missing or lacking any descriptive information • Import and files are not loaded
Deployment/Submission	**10 Points Mastery** • Repository cloned to local machine • Files added to the repo via the command line • Appropriate commit messages	**9 Points Approaching Mastery** • Repository cloned to local machine • Files added to repo via the command line	**8 Points Progressing** • Repository created on GitHub • Files added manually on GitHub	**8 > 0 Emerging** • No Submission • Submission via incorrect format
Documentation/Comments	**10 Points Mastery** • Code is well commented with concise, relevant notes	**9 Points Approaching Mastery** • Code is commented and mostly understandable to an outside user	**8 Points Progressing** • Code has comments, but they are not understandable to an outside user	**8 > 0 Emerging** • Code is not commented
Optional Challenge — Early Retirement • Portfolio adjusted for early retirement - Analysis of high stock vs bond ratio/ Initial Investment	**10 Points Mastery** • Completed 100% of requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs	**10 > 8 Points Approaching Mastery** • Completed ≥ 80% of requirements • Code runs without error • Code produces results as expected 80% of the time	**8 > 6 Points Progressing** • Completed ≥ 70% of requirements • Code runs without error • Code produces results, but not necessarily the correct results	**6 > 0 Emerging** • Completed ≤ 70% of requirements • No submission • Code does not run without error

TOTAL POINTS