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CS 521 Fall 2

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My program is a grade-tracking program for students. It will take a student’s marks and tell them how they are doing compared to their target/goal (on-track or needing more work), and compared to the passing grade of the exam (passing or not).

The student will provide inputs like:

1. Student’s target grade and a passing grade.
2. Marks in 4 categories – Assignment(homework/lab), Quiz(or test), Exam(finals) and Project
3. For Assignment and Quiz -they can enter as many marks as they want as their number differs with every course. For example – a course can have 1 lab and 1 homework every week, but 1 quiz every two weeks. For Exam and Project – only one grade is allowed
4. The maximum marks have to be entered with every entry as different submissions under the same category can have different maximum marks. For example – quizzes can be different marks in the same course.
5. The final score distribution of every category (weightage) will also be entered by the student.

The program:

1. Calculate percent and letter grade accordingly (for each category – A, Q, E, P)
2. Give average grade before the final exam (above/below target grade) and (above/below passing grade)
3. Weightage-wise marks, percentage, and grades for each category
4. If you HAVE your Exam and Project grade – you will get all of the above.
5. If you DON’T HAVE your Exam and Project grade (as they are usually right at the end of the course), you can enter any hypothetical marks in the “Exam” and “Project” categories and you will get- **the minimum marks you need to get in both these individually (both, according to weightage and as a percentage) to achieve your target grade.**
6. In the event achieving the target grade is not possible (marks needed are more than the total possible marks), it will ask you to change your target grade, but show you the result anyway.
7. It will also output these stats to a text file.

**Instructions to run code – Run the file called – Main\_project. Other files – Quiz\_class, Calc\_class, and File\_class are imported into it.**