GPA Calculator

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Key Features

- Calculates GPA from both letter and number grades on a graphical interface
- Can account for weightage from both Honors and AP courses
- Can export the results in an HTML file
 - Can be viewed in the user's browser of choice

GPA Calculator UI Design Grade type Menu bar File Table Grade Type: Cletter Grade Number Grade Number of courses: 17 **Number of Courses Course Details:** Name Grade Type **Course Name** Course Type: Regular, Regular -Honors, AP Regular -Regular -Grade in number or Regular letter format Regular -Regular 💌 Regular -Regular 💌 **GPA Result** Regular -Download as HTML file Regular 💌 Weighted GPA: X.XXXX Reset Download Quit Unweighted GPA: X.XXXX

How the program works: Update GPAs

- Detect when user enters the grade
- Assign a number between 0 and 4 based on the grade
- Find the weightage on the courses based on whether they are Honors or AP
- Average the base numbers to get the unweighted GPA
- Average the base numbers with the weightage to get the weighted GPA
- Show both on screen

How the program works: Downloading

- Created HTML file, containing table with following details:
 - o course information from the program
 - Weighted and Unweighted GPA
 - Save the file in selected location

Credits:

Development & Testing:

Programming Language: Java

Development Editor: Visual Studio Code

Testing: JUnit for Test Cases

Packaging: Maven

Creative Content:

Splash Screen image from Unsplash

Splash screen created in Canva (https://canva.com)

Source Code

https://github.com/pranavsmoorthy/gpacalculator/tree/main

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- <u>Canva</u> (https://www.canva.com/policies/content-license-agreement/) Allowed for school and university projects as described in section 5

Thank You

- FBLA
- Club Mentors and Teachers
- Software Community