

Setting Policy.

The screenshot displays the GradeBook application interface. At the top, a tab bar shows several open files: Presentation.py, Scores.csv, Student.csv, Grades.out.csv, and Policy.csv. Below the tabs, a status bar indicates 'Plugins supporting *.csv files found.' with links to 'Install plugins' and 'Ignore extension'. The main editor area displays the contents of Policy.csv, which lists the following policy settings:

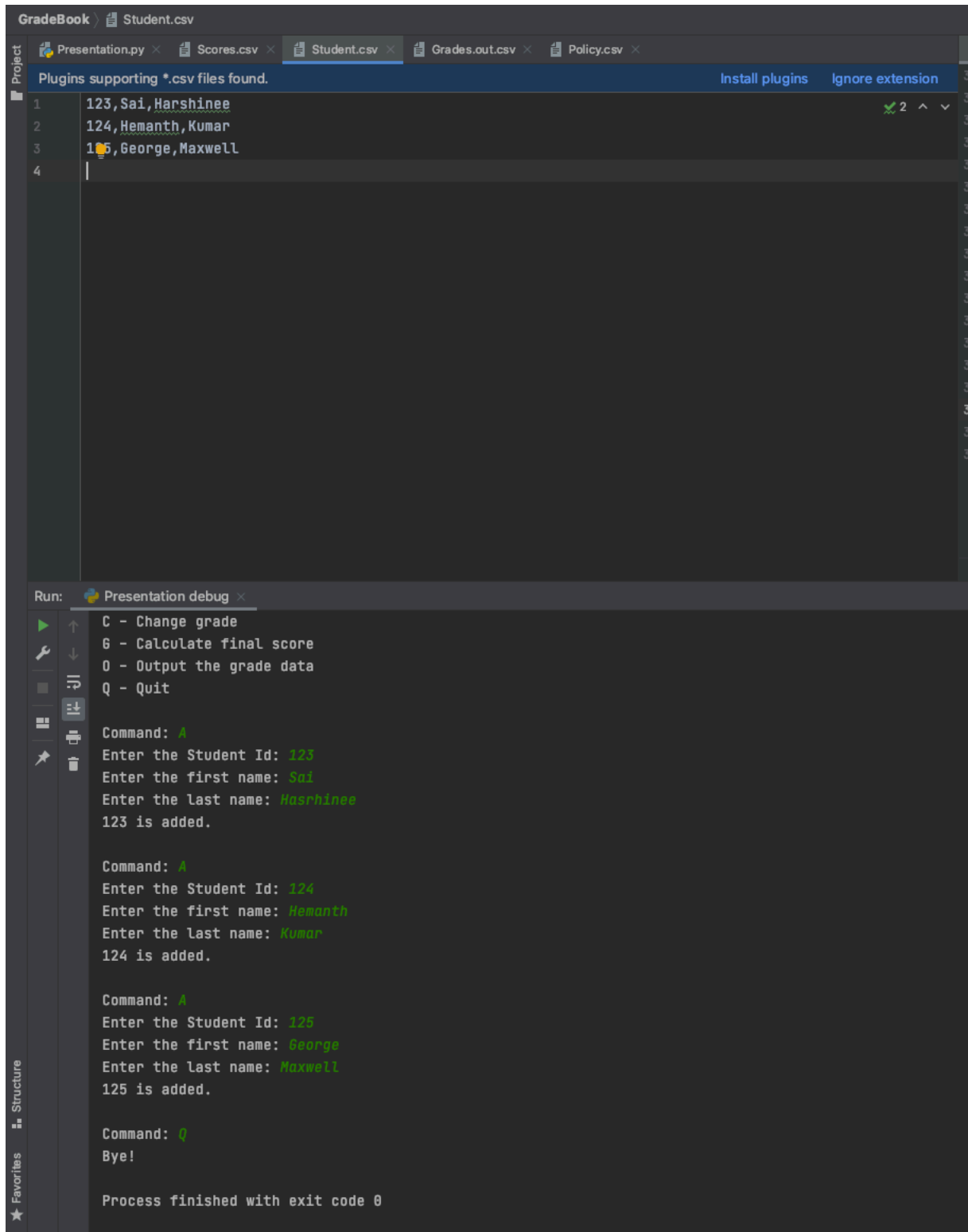
Line	Policy Setting	Status
1	Assignments Number,2	✓
2	Tests Number,2	
3	Final Exam Number,1	
4	Assignment Weight,30.0	
5	Test Weight,30.0	
6	Final Exam Weight,40.0	
7		

At the bottom, a 'Run:' panel titled 'Presentation debug' shows the execution output. The output includes a prompt to 'obtain the grade data', a 'Q - Quit' command, and a series of prompts for user input. The user has entered the following values:

- Enter number of programming assignments(0-6): 2
- Enter number of tests(0-4): 2
- Enter number of Final exams (0-1): 1
- Enter the weights for Assignment, Test and Final exam: 30, 30, 40

The output also shows a confirmation message: 'Weights must add to 100%'. The process finished with exit code 0.

Adding Students



The image shows a VS Code editor window with the file `Student.csv` open. The file contains three lines of CSV data:

```
1 123,Sai,Harshinee
2 124,Hemanth,Kumar
3 125,George,Maxwell
4
```

The bottom panel shows a terminal window titled "Presentation debug" with the following output:

```
Run: Presentation debug
C - Change grade
6 - Calculate final score
0 - Output the grade data
Q - Quit

Command: A
Enter the Student Id: 123
Enter the first name: Sai
Enter the last name: Harshinee
123 is added.

Command: A
Enter the Student Id: 124
Enter the first name: Hemanth
Enter the last name: Kumar
124 is added.

Command: A
Enter the Student Id: 125
Enter the first name: George
Enter the last name: Maxwell
125 is added.

Command: Q
Bye!

Process finished with exit code 0
```

Entering Scores.

The screenshot displays the GradeBook application interface. At the top, the title bar shows 'GradeBook' and the active file 'Scores.csv'. Below the title bar, a tabbed interface shows 'Presentation.py', 'Scores.csv', 'Student.csv', 'Grades.out.csv', and 'Policy.csv'. The 'Scores.csv' tab is active, showing a table with columns for Student ID, Assignment, and Score. The table contains three rows of data: (123, Assignment, 1, 48), (124, Assignment, 1, 50), and (125, Assignment, 1, 40). A green checkmark is visible in the right margin of the first row. Below the table, a 'Run:' section shows a list of commands: T - Record test score, F - Record Final exam score, C - Change grade, G - Calculate final score, O - Output the grade data, and Q - Quit. The command 'P' is selected, and the output shows the process of entering scores for three students: Sai Harshinee (ID 123, Score 48), Hemanth Kumar (ID 124, Score 50), and George Maxwell (ID 125, Score 40). The process finishes with exit code 0.

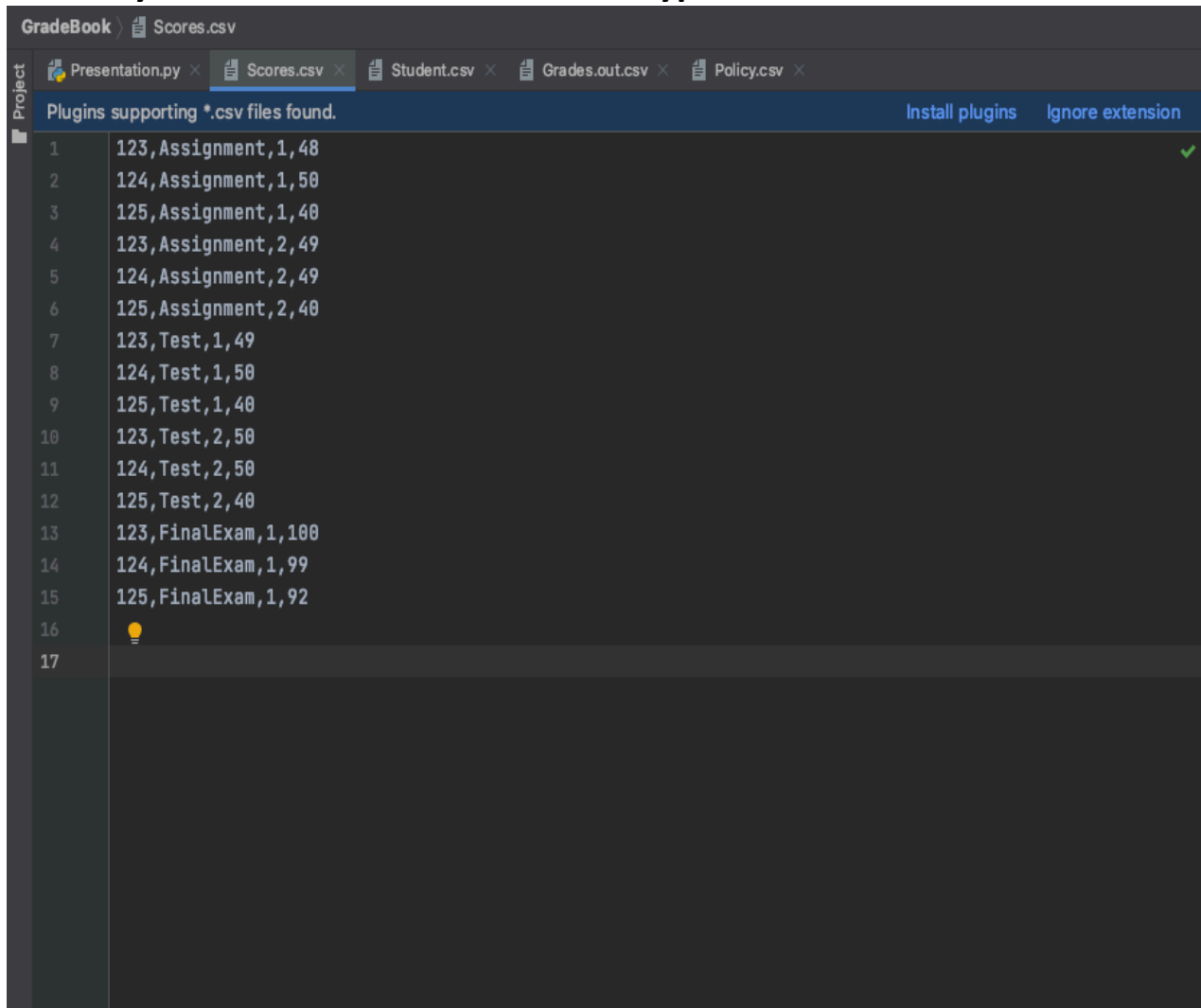
```
GradeBook > Scores.csv
Presentation.py x Scores.csv x Student.csv x Grades.out.csv x Policy.csv x
Plugins supporting *.csv files found. Install plugins Ignore extension
1 123,Assignment,1,48 ✓
2 124,Assignment,1,50
3 125,Assignment,1,40
4

Run: Presentation debug x
T - Record test score
F - Record Final exam score
C - Change grade
G - Calculate final score
O - Output the grade data
Q - Quit

Command: P
Enter the Student Id: 123
Student Name is: Sai Harshinee
Enter which assignment number: 1
Enter assignment score for student with ID 123:48
Assignment Score record saved in a file
Command: P
Enter the Student Id: 124
Student Name is: Hemanth Kumar
Enter which assignment number: 1
Enter assignment score for student with ID 124:50
Assignment Score record saved in a file
Command: P
Enter the Student Id: 125
Student Name is: George Maxwell
Enter which assignment number: 1
Enter assignment score for student with ID 125:40
Assignment Score record saved in a file
Command: Q
Bye!

Process finished with exit code 0
```

Similarly enter for all students and all type of scores.



Changing Grade

```
1 124,Assignment,1,50
2 125,Assignment,1,40
3 123,Assignment,2,49
4 124,Assignment,2,49
5 125,Assignment,2,40
6 123,Test,1,49
7 124,Test,1,50
8 125,Test,1,40
9 123,Test,2,50
10 124,Test,2,50
11 125,Test,2,40
12 123,FinalExam,1,100
13 124,FinalExam,1,99
14 125,FinalExam,1,92
15 123,Assignment,1,50
16
```

Run: Presentation debug x

COMMAND MENU
S - Set up for new semester
A - Add a student
P - Record programming assignment score
T - Record test score
F - Record Final exam score
C - Change grade
G - Calculate final score
O - Output the grade data
Q - Quit

Command: C
Enter the Student Id for whom you want to change the score: 123
Enter the type of Score: A(Assignment) or T(Test) or F(Final Exam)A
Enter which A(Assignment) or T(Test) or F(Final Exam) number: 1
Enter the new score for student with ID 123:50
Command: Q
Bye!

Process finished with exit code 0

Run | TODO | Problems | Terminal | Python Console

Final Output File.

The screenshot shows a PyCharm IDE with the 'Grades.out.csv' file open. The file contains three rows of student data. The Run console shows the command menu and the execution of the program, which successfully saves the student final grades to the Grades.out.csv file.

Grades.out.csv

Student ID	Name	Assignment	Test	Final Exam	Final score
125	George, Maxwell	80.0	80.0	92.0	60.8
124	Hemanth, Kumar	99.0	100.0	99.0	69.45
123	Sai, Harshinee	99.0	99.0	100.0	69.7

Run: Presentation debug

```
COMMAND MENU
S - Set up for new semester
A - Add a student
P - Record programming assignment score
T - Record test score
F - Record Final exam score
C - Change grade
G - Calculate final score
O - Output the grade data
Q - Quit

Command: G
124 {'Assignment': 99.0, 'Test': 100.0, 'FinalExam': 99.0}
125 {'Assignment': 80.0, 'Test': 80.0, 'FinalExam': 92.0}
123 {'Assignment': 99.0, 'Test': 99.0, 'FinalExam': 100.0}
Successfully saved the student final grades to Grades.out.csv file
Command: Q
Bye!

Process finished with exit code 0
```