Grade Calculator Project | Form 2

Objective

Students will use Python to create a program useful for the calculation of academic grades.

Lesson Observations

Stream B (4 students)
03/08/2017: Students began to plot out the desired functionality of their grade program, answering my questions such as: how many students should it handle, what kind of grades should it accept, etc. Students familiarized themselves with their group project directory and began experimenting with an initial Python script.

03/13/2017: This group expressed their desire to change project topics today, to something like an Android application, which is beyond the scope of their current abilities or this class in general (maybe in Form 3 or 4). I asked them to keep thinking about more projects to switch to, but they eventually changed their mind back to the calculator program. I could see that they needed some direction, so I told them to start out creating a program like this:
 	
`Enter grades for student:`
`100`
`80`
`45`
`10`
`90`
`Done`
`=========================`
`The student's class average is: _____`
`The student's letter grade is:  _____`
 	
Then they can expand the features with that as a base.

03/17/2017: Progress was made towards getting the program above to function. The group currently has code that translates the school's grade ranges into letter grades.
03/20/2017: Graded assessment of group performance (25% of grade) and peer evaluation (75% of grade). This group did not do well, with everyone giving everyone else very poor peer evaluation grades. Although they have all written some Python code to date, their team problems are getting in the way of progress.
03/27/2017: I talked to this group about their intra-group issues, asked them to resolve them, and they said they'd work on it. One student made noticeable progress on his Python program today, adding the ability to average grades together.
03/29/2017: This group still isn't working great together, with one or two students making individual progress but that's about it. I'm hoping they eventually pull together, it may take some time.
03/31/2017: Some progress was made by one student, questionable progress by the rest. I explained how to re-organize the one student's code into functions that his team could import and use themselves if they so choose.