National University
of Computer & Emerging Sciences
Peshawar Campus

Problem Set:	Assignment 06	Semester:	Spring 2018
Points:	See autograder		
Date Set:	See autograder	Due Date:	See autograder
Course:	CS101 Introduction to Computing	Instructor:	Shakir Ullah Shah

1 Autograder Test

Since you are reading this, you have already downloaded and extracted the zip file.
`Read through the whole description below before starting with the assignment.`

1.1 Tasks to do

1. Open the file `a06.py` and follow the instructions given below:

   (a) Write a function with the exact name of `cumulative_marks` that takes string as an argument from a file name `'studentRecord.txt'` as a tuple. Each tuple represents the scores of a student. The first element is the roll number of the student and the second is the full name. The rest of the elements are the student's scores in quizzes.

   Some students may have more quizzes than the others. For instance, in the example below, the first student has 3 quizzes while the third has only 2 (of which, the third got a 'A' which shows the student was absent). A in the score is the same as a 0. Some contents of `'studentRecord.txt'` are:

   ```
   'p166006', 'Awais Ahmed Qarni', 7 ,4, 6
   'p166130', 'Ali Hassan', 3, 8, None
   'p166140', 'Umm Eaimen', 5 ,8.3, 6
   'p176002', 'Dawar Khan', 6 ,10, 6
   'p176005', 'Fatima Noor', 6 ,10, 6
   ```

   Your mission, should you choose to accept it, is to write your function in a way that it returns the cumulative marks of each student. So, for the case above, it should return a list of tuples as follows:

   ```
   [
       ('16P-6006', 'Awais Ahmed Qarni', 17),
       ('16P-6130', 'Ali Hassan', 11),
       ('16P-6140', 'Umm E Aimen', 19.3),
       ('17P-6002', 'Dawar Khan', 22),
       ('17P-6005', 'Fatima Noor', 22),
   ]
   ```

   Your function should be able to handle any number of student records passed to it. If a None is passed to the function, it should return a None back. If an empty list is passed, it should, obviously return an empty list back.

   Make sure you preserve the order of the tuples within the outer list. If the order of students is changed, your tests may not pass.

2. Then, run local tests using the `python run.py local`
3. If all tests succeed, submit your assignment using `python run.py remote`
4. Run local tests and if they pass, submit the assignment using the submission command given on the Autograder assignment page. (Same as the previous assignment.)
5. Once the submission is successful, you may visit the Autograder front-end to view your submission history.
6. If you face any issue, please send me an email informing me of the error. We're still trying to work out the issues in this new system. So, your help will be greatly appreciated.