

## Week 9 Exercise

### Exercise 9.1 Credit Course Grading

At Excellence University, undergraduate students who take an undergraduate course will be given a letter grade which can be A, B, C, D or F. However, some graduate students have to take an undergraduate course as a prerequisite which will be considered as a non-credit course (S or U letter grade). The course grades are computed based on the following criteria:

Undergraduate student's total score

- 85 or above: A
- 75 to 84 B
- 60 to 74: C
- 50 to 59 : D
- Below 50: F

Graduate student's total score

- 80: S
- Below 80: U

Write an application that reads in a CSV file organized in the manner shown below and displays the final course grades. Note that, there are 5 tests in the course (each is worth 20 marks), whose total will add up the full marks of 100.

The input text file format is as follows:

- A single line is used for information on one student.
- Each line will be in the following format.

*<Type>, <First Name>, <Last Name>, <Test 1>, <Test 2>, <Test 3>, <Test 4>, <Test 5>*

where

*<Type>* designates either a graduate or an undergraduate student,

*<First Name>* designates the student's first name,

*<Last Name>* designates student's last name, and

*<Test i>* designates the  $i^{\text{th}}$  test score.

Set up your own .csv file to test the program.