1. (10 marks) Write a python function calculateDecimalGrade that has 3 parameters Assign, MT and FP with default values of 50,60 and 100 respectively. Assume these values are already float values, positive and less or equal to 100. This function returns the decimal grade calculated according to the course outline of the course.

2. (5 marks) Write a test program to test your function on the following test cases and fill the table with the results:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assign** | **MT** | **FP** | **Decimal** | **Alphabetical** |
| 50 | 60 | 70 | 58.5 | F |
| 63 | 34 | 33 | 45.35 | F |
| 90 | 34 | 23 | 53.65 | F |
| 90 | 82 | 100 | 89.7 | A |

3. (10 marks) Write a python function calculateAlphabeticalGrade with one parameter DecGrade with a default value of 67. Assume this value is already a number and less or equal to 100. The function returns the alphabetical grade associated to DecGrade according to the College Standard Marking Scheme found in the course outline.

4. (5 marks) Write a test program to test your function your function on the previous calculated decimal values.

5. (5 marks) Write a python function that reads the file Final301.csv, and updates each row with the decimal grade and the alphabetical grade of each student.

6. (10 marks) Write a python program that reads the updated Final301.csv file and create a dictionary where the key is the firstName concatenated with the last name of the student and whose value is a list that contains the Decimal Final Grade and the Alphabetical Final grade.

The program then prompts the user for the name of a student and displays his/her final decimal grade and alphabetical grade or an error message is the student is not in the dictionary. The program keeps prompting for a new name until the user decides to quit.

Submit a **zip** file that contains the test cases tables filled, the updated csv file and your python code (all functions and program in one file)