1.       Make a class Student in which you keep:

-          An unique identifier (find a way to generate it)

Use this:

<https://docs.microsoft.com/en-us/dotnet/api/system.guid.newguid?view=net-5.0>

-          First Name

-          Last Name

-          Address

-          His year of study

-          A dictionary with courses in which you keep the grades for each course

2.       Make a dictionary with students where the keys are their unique identifiers

3.       Make a function which is returning the student with the highest average rate of his grades from the dictionary populated at the exercise 2

4.       Make a function which is returning all the students with the name containing “escu”. Use regular expressions for this. Use the dictionary from step 2 as parameter

5.       Make a function which is returning the courses studied by a student in an year. This function has these parameters:

Dictionary with the students

the unique identifier of a student

and the year of study.

You can use this documentation to solve the next problems:

<https://docs.microsoft.com/en-us/troubleshoot/dotnet/csharp/read-write-text-file>

6.       Export the data you have in the dictionary from the step 2 to a text file

To do this use a function which is having a string with the file name (and path) as parameter and a dictionary with students

7.       Import the data from a file into a dictionary like the one from step 2

Use a function with the parameters like the previous one

8. Crate an Nunit test project and unit test all the implementation.