C# Exercise 5 - Classes

- 1. Create a new class called "Student". This class does not require a Main method.
- 2. Give the class 4 fields to hold a student's name, subject, exam result percentage and whether the student is living in student housing or not. These variables should all have the 'private' access modifier. This class should have 4 methods to print these 4 variables to the console.
- 3. Create a constructor which will set the 4 variables whenever a new object is created
- 4. Using an existing class with a Main method or creating a new class with a Main method, create 5 student objects using the student constructor method. You can make up their details except from their exam percentages which should be as follows:
 - a. Student1 is 25
 - b. Student2 is 40
 - c. Student3 is 59
 - d. Student4 is 70
 - e. Student5 is 82
- 5. For each student, print out the following information:

Name: <student name>

Subject: <subject>

Exam result: <exam result>% Student housing: <true/false>

- 6. Create a new method in the student class which will work out the final grade for the student based on the exam result. The method should return a single grade using the following rules:
 - a. 75 + = 'A'
 - b. 60-74 = 'B'
 - c. 50-59 = 'C'
 - d. 40-49 = 'D'
 - e. 0-39 = 'F'
- 7. From the main method in question 5, call the method to work out each student's grade and print their result to the console.