**COMP1202 Group Project**

**(Group size maximum 3)**

**Due: Wednesday 10th April 2019 at 11:30 pm**

A multiple-choice examination consists of 20 questions. Each question has five choices, labeled **A**, **B**, **C**, **D** and **E**. All data for that exam is stored in a file ***exam.txt***. The first line of data contains the correct answers to the twenty questions in the first 20 consecutive (one after the other) character positions. For Example:

**BECDCBAADEBACBEDDBED**

Each subsequent line in the file contains the answers for a single candidate. Data on a line consists of a candidate number (an integer), then by one or more spaces, followed by the twenty answers given by the candidate in the next 20 consecutive character positions. An **X** is used if a candidate did not answer a particular question. A sample line is as follows:

**5555** **BECDCXACCAEDCBEDDACB**

There can be an *unlimited number of candidates*. A line containing a “candidate number” **0** indicates the end of the data.

A student’s final score is calculated by adding up the points awarded for all the questions. Points for a question are awarded as follows:

* Correct answer 4 points
* Wrong answer -1 point
* No answer 0 points

Write a C# program to process the data in the file *exam.txt* and print a report that shows:

1. Each candidate number and their final score (the total points obtained by the candidate).
2. The total number of candidates
3. The number of correct responses to each of the 20 questions.

**Your program name should be you ID number and you must submit only the C# Code file.**

**A sample data file and the expected format for the output are given on the next page.**

**The names and id numbers of all group members must be commented at the top of the program**

**One member of each group must be responsible for uploading the “project submission document” containing the C# program code.**

**Only the completed “project submission document” must be uploaded.**

**Sample data that can be in the file exam.txt:**

**BACCDEABCEEDCDABBAED**

**6734 BXCCDAABCEEDCDACBAED**

**7843 BADCXAABCEXXCDABBAED**

**2223 BCBAEACCDAEDCDABBAEA**

**2324 BACXDEABCEEDCDAABAED**

**3474 BACCDEABCEEDCDABBAED**

**3434 XADCDAABCEEDCDABBAED**

**6374 XXXXXCXXXXXXXXXXXAED**

**3332 BADCDEABCEEDCDADBCEX**

**3454 BACCXEABCEEDCXABBAED**

**0**

**Sample program output: (Note the output below does not match the sample file above and is purely for possible layout of information)**

