## Solve the Following Questions:

Q1. Design and implement a program that reads a set of scores until it encounters -1, then computes and displays the average, min, and max score.

Example execution:

```
Enter Scores or -1 to exit...
5
3
7
-1
Average: 5, Max: 7, Min: 3
```

Q2. Design and implement a program that reads a four digit integer representing a year, then it determines whether the year is a leap year or not. Display the year that you entered and a message indicating whether it is leap or not.

A year is leap if:

- it is divisible by 4 and not by 100, or
- it is divisible by 400.

*Q3.* Design and implement a program that reads the scores of 7 quizzes. A "-1" value indicates an absence. The program then displays the count of absences and the average of the normal (not -1) scores.

Example: if input is (12, -1, 14, -1, 13, 11, -1) it outputs: Average: 12.5 with 3 absences

Q4. Design and implement a program that takes a GPA of a student and weather he fails in any course or not then output the results using following criteria...

- If  $GPA \ge 3.0$  and he didn't fail before, then he is honor as follows...
  - o if  $\geq 3.75$  output first honor.
  - o If  $\geq 2.25$  and < 3.75 output second honor.
  - If < 2.25 output third honor
- If  $GPA \ge 2.0$  (even if honor) output **Good Standing**.
- If  $GPA \ge 1.0$  and < 2.0 output Academic Warning.
- If GPA < 1.0 output Academic Probation.

```
Example execution:
```

```
Input a student GPA
3.31
Did he fail in any course before (y for Yes and n for No)
n
Student is "Second Honor" and "Good Standing"
```

## **NOTES:**

- 1. Due date is: Tuesday, 30 October 2007. By 08:00 a.m.
- 2. Homework Submitting is through the WebCT
- 3. Late work is not accepted.
- 4. Cheating will result in **F** grade in the course.