

# CIS103 File I/O

Read a file that has name & points then generate a letter grade

INPUT: points.txt

**Input format:** Id number, name, points

Output: two files: grades.txt and error.txt

**Grades.txt format:** id number, name, points, **grade**

**Error.txt format:** id number, name, points, **error message**

**NOTE: must use the EOF method ( while line != "": )**

**– this is the only method accepted,**

**all other will be rejected**

**Do not use the other methods**

Processing:

1. Open files
2. Read a record
3. Process the record
4. Write to either grade file or error file
5. When Done display file counts (read, good & error file)

Editing rules: points must be between 0 and 1000

Points can not be negative

Base points: 1000

Point must be numeric

Count number of records read

Count number written to grade file (good file)

Count number of records written to error file (errors detected)

# CIS103 File I/O

At beginning of program, print date and time program started

When program is done: print the following:

Number of records read

Number of record to grade file

Number of error records

Then: print date and time program is done

Grade Logic: determine letter grade from input points

900-1000 = A (90%)

800-899 = B (80%)

700-799 = C (70%)

600-699 = D (60%)

0-599 = F (0%-59.9%)

Note: percentage calculation is:  
points divided by base points times 100

Use notepad to check all files.

Example record output:

Grade record: 505, john jones,888,B (grades.txt file)

Error record: 707, Jimmy johns, -10 Points can not be negative (error.txt file)

Hint: be sure to close files when done

Hint: use functions for some of the processing