

CSE2031

Lab 10 FALL 2009

The purpose of this lab is to introduce you to the awk programming language.
The lab consists of 2 programs

Program 1

write an awk program to read a file with integers on a separate lines and display the same integer with comma after each three digits for readability.

For example, if

input

```
17
-123
1234
12345
123456
```

output

```
17
-123
1,234
12,345
123,456
```

and so on.

Submit as submit I10a I10a

Program 2

Write an awk program that takes a file of students results in a course and display them sorted in a nicer and easier to read way.

The input is a file with each line is on the form

student name: mark in final out of a 100: mark in midterm out of 50

for example

John Doe: 69: 23

Your program should read the input and calculate the total mark of the student as follows 70% for the final exam and 30% for the midterm. The total mark is out of 100.

Then your program should display the results formatted and sorted (**sorted according to name, consider the name to be just a string so sort by first name**)

then last name). as follows

The student name in a 25 places left justified.

Followed by 2 spaces

Followed by the total mark as "%6.2f" followed by 2 spaces.

Then the difference between the student total mark and the average class mark formatted as "%6.2f" followed by a new line.

for example the output may be (The first line is not a part of the output, it is just to help you with the spaces) Assuming the average is 74.48

```
1.....1.....1.....1.....1.....
Jane Mc Dow          52.30  -22.18
John Doe             100.00   25.52
```

Submit as l10b l10b