

Lassonde School of Engineering

Dept of EECS2200

EECS 2032 Winter 2020

LAB 3

Lab Objectives

Write a script to manipulate data in two different files

Consider two files

names.txt a file with many records each record in a line by itself. Each record consists of students name (may contain spaces) and student ID separated by a tab

courses.txt a file with many records each record in a line by itself. Each record consists of ID, course name (no spaces) and grade separated by tabs. An empty grade means in progress

Write a shell script (l3.sh) to do the following.

The script runs as l3.sh followed by arguments (command line arguments)

First, the script checks if the above two files exist, if they do it will continue processing based on the arguments, if one or both files do not exist, it prints

One or both files do not exist

Then it quits

based on the arguments, the script does the following

- **-count** the script displays the number of students in the first file and quits
- **-f student name** it displays all the courses that students has taken and his/her grade separated by a tab (if the course is in progress, it display “in progress” instead of the grade). if that student does not exist, it displays “No such student: followed by the student name”
- **-g student name** it displays all the courses that students has completed (has a grade in) in the above mentioned format.
- **-c course name** displays the number of students registered in this course
- **-list course grade** displays the number of students in this course who achieved this grade

Submit as l3.sh to LAB3