Assignment
Week 20
CT103
Programming

Lab Week Beginning 3rd March 2014

Assignment Description

- *You are to write a program that process a data file which contains tab delimited results data as shown in the following slide.*

- *Your program must accept command line arguments*

- *Your program will be able to find and output a single line in the file or all the data from a range. So, for example, you could find the results for "Sherri Melton" by running it as follows:*
  - `c103.exe c:\\results.txt /s Sherri Melton`

- *or for all the students whose surname is in the range "Chung" to "May"*
  - `ct103.exe c:\\results.txt /r Chung May`

- *When you have this working you could then try adding the option of sending the output to a file, instead of the screen. For example:*
  - `c103.exe c:\\results.txt /s Sherri Melton /o c:\\output.txt`

- *or*
  - `ct103.exe c:\\results.txt /r Chung May /o c:\\output.txt`

- *NOTE: you will have to discard the first command line argument (e.g. argv[0]) – this will contain just the path/executable_name*

- *Some of the code is written for you to get you started*

ID	First Name	Last Name	English	Maths	French	Philosophy
137	Elsie	Barton	A	A	B	A
108	Hazel	Bender	A	B	A	A
102	Paige	Chen	D	D	A	D
101	Kristina	Chung	D	B	B	A
129	Wayne	Connolly	C	E	D	D
115	Julia	Desai	E	B	A	C
119	Kristine	Dougherty	E	E	B	A

Single

```
C:\Documents and Settings\o_molloy\My Documents\Visual Studio Projects\ct103\Deb
ug>ct103.exe c:\\results.txt /s Sherri Melton
103     Sherri  Melton  A       A       D       D

C:\Documents and Settings\o_molloy\My Documents\Visual Studio Projects\ct103\Deb
ug>_
```

Range

```
C:\WINDOWS\system32\cmd.exe

C:\Documents and Settings\o_molloy\My Documents\Visual Studio Projects\ct103\Deb
ug>ct103.exe c:\\results.txt /r Chung May
101     Kristina        Chung     D       B       B       A
129     Wayne   Connolly          C       E       D       D
115     Julia   Desai   E         B       A       C
119     Kristine        Dougherty E       E       B       A
125     Claire  Gallagher         B       E       A       D
132     Gretchen        Goldstein B       D       C       A
118     Jean    Griffin B         D       D       A
139     Erica   Hall    A         A       A       D
107     Elsie   Hamilton          B       D       A       A
130     Stephanie       Hawkins C B       D       E
104     Gretchen        Hill    F A       A       A
134     Jerome  Johnston          C       E       C       A
117     Neal    Lawrence          A       A       A       A
121     Alex    May     C         E       A       C

C:\Documents and Settings\o_molloy\My Documents\Visual Studio Projects\ct103\Deb
ug>
```