

The University of Melbourne  
Department of Computer Science and Software Engineering  
**433-254 Software Design**  
Semester 2, 2003

**Lab 7**  
Week 8

1. Write a program that counts the number of characters, words and lines in a file. Use exceptions to check whether file you are reading exists or not. Take file name as a command line argument.
2. Write a program that maintains a student database and also allows random access. The student record contains: student ID (int), first\_name(15 bytes) second\_name(15 bytes), discipline (15 bytes), final\_grade (int)

Enter details of 10 students and store in random file. Then do query of student details in non sequential order (student id 2, 6, 3, and so on). Use exceptions to manage file related errors.