BCS 230 Lab4

CRN 23798, 23322, 20108 Spring 2015

Instructor: Dr. Jie Li

Objective: To learn to define structs and to manipulate data using structs.

Task.

a. Write the definition of a struct named courseType which has four members: courseName of type string, courseID of type int, and credit of type int.

b. In the function main, create a struct variable course1 of type courseType, and initialize it with the following values:

courseName: "Programming II"

courseID: 71200 credit: 3

- c. Write the definition of function printCourse to print the contents of a courseType variable.
- d. In the function main, create a struct variable course2, and copy the contents of course1 to course2.
- ${f e}$. Change the member courseName of course2 to "Web Database Development" and change courseID of course2 by adding 100 to it.
- **f**. Call function printCourse to output the values of course1 and course2.
- g. Write the definition of a struct named studentType that has three members: studentName of type string, firstCourse of type courseType, and secondCourse of type courseType.
- **h**. In the function main, create variable student1 of type studentType, and initialize it with:

studentName: "Alice Brown"

firstCourse: course1
secondCourse: course2

i. Output the following information of student1:

studentName

courseName of student1's firstCourse

courseName, courseID and credit of student1's secondCourse.