CSC 2100 Test 3 Sample

1) Question 1 (question31.cpp)

Write a code to implement two structure data types:

a) Chapter: contains three members: string name, int pageNumber, int sectionTotal

b) Course: contains two members: string courseName and an array of 3 Chapters.

In the main function you will create an array of Courses of length n. n is entered by the user. You will use loops to enter the information of each element of the array. After all the elements of the array are entered, you will use loops to display the name of each course followed by the names of each chapter and the total of its sections.

2) Question 2 (question32.cpp)

Write a code to implement a union data type: MagazineType. MagazineType has three integer elements: dailyM, weeklyM and monthlyM.

You will create a MagazineType variable x in the main function. You will ask the user to enter a character: d for daily, w for weekly and m for montly. If d is entered, dailyM of x will be set to 1. If w is entered, weeklyM of x will be set to 2. And if m is entered, monthlyM will be set to 3. After that, You will display the values of the three members.

3) Question 3 (question33.cpp)

You will implement question 2 but by using an anonymous union.

4) Question 4 (question34.cpp)

You will define an enumerated data type: Car. Car will contain 4 enumerators: Porsche, Ferrari, BMW and Jaguar. The color of Porsche is red, the color of Ferrari is black, the color of BMW is blue and the color of Jaguar is green. You will use a loop to display the car names and you will use a switch statement to display the color of each car.