

North South University
Department of Electrical and Computer Engineering
CSE 115L: Programming Language I Lab
Week 08 – Assignments

1. Create a structure to specify data on students like Roll number, Name, Department, Course, Year of joining. Assume that there are not more than 50 students in the college.
 - (a) Write a function to print names of all students who joined in a particular year.
 - (b) Write a function to print the data of a student whose roll number is given.
2. Create a structure to specify data of customers in a bank. The data to be stored is: Account number, Name, Balance in account. Assume maximum of 200 customers in the bank.
 - (a) Write a function to print the Account number and name of each customer with balance below Rs. 100.
 - (b) If a customer request for withdrawal or deposit, it is given in the form: Acct. no, amount, code (1 for deposit, 0 for withdrawal)
Write a program to give a message, "The balance is insufficient for the specified withdrawal".
3. A record contains name of cricketer, his age, number of test matches that he has played and the average runs that he has scored in each test match. Create an array of structure to hold records of 20 such cricketer and then write a program to read these records and arrange them in ascending order by average runs. Use the `qsort()` standard library function.
4. There is a structure called **employee** that holds information like employee code, name, date of joining. Write a program to create an array of the structure and enter some data into it. Then ask the user to enter current date. Display the names of those employees whose tenure is 3 or more than 3 years according to the given current date.
5. Write a menu driven program that depicts the working of a library. The menu options should be:
 - I. Add book information
 - II. Display book information
 - III. List all books of given author
 - IV. List the title of specified book
 - V. List the count of books in the library
 - VI. List the books in the order of accession number
 - VII. Exit

Create a structure called library to hold accession number, title of the book, author name, price of the book, and flag indicating whether book is issued or not.