

SDF-II (15B11CI211)
First Year - EVEN 2020
Tutorial: 1
Related Course Outcome: [CO1]

Topics covered: Derived data types – Enumerated, structure and Union, Revision of Functions, pointers basics, passing pointer to variables in functions, handling structures using pointer.

Q1. Develop a function to calculate GCD of n random numbers using functions in C.

Q2. Make use of functions and check whether two strings entered by the user are anagram of each other or not.

Q3. Write a C Program which displays the capital when a user enters the country name at run time. The user will enter details of country in a matrix with two columns, col1 represents the country name and col2 represents the capital. Take the assumption that number of countries will be minimum 10.

Q4. Create a structure to specify data of customers in a bank. The data to be stored is: Account number, Name, Balance in account. Consider total 10 customers in the bank.

a. Display the Account number and name of each customer with balance below Rs. 10000. Then display a message that balance of Rs 10000 is not maintained.

b. If a customer request for withdrawal or deposit by passing Acct. no, amount, code (1 for deposit, 0 for withdrawal), then first update the total amount left in balance and then display it.

Q5. Write a structure to store the roll no., name, address and grade(A,A+,B,B+) of students (more than 10). Store the information of the students.

- (i) Write a function to print the names of all the students with the specified input grade and specified city by the user. (Call by value)
- (ii) Write another function to print the names of all the students whose name starts with given alphabet. (Call by value)
- (iii) Write another function to display the details of the student whose roll no is given (i.e. roll no. entered by the user). (Call by value)