

Navrachana University
School of Engineering and Technology
Department of Computer Science and Engineering
Course: CS1008 Introduction to Computer Programming
Programming Assignment – 4

Date : 1st Nov 2021

Instructions

- Implement the given Questions using C programming language.
- Use meaningful and descriptive variable/identifier names:
Good variable names (camelCase): rollNo, studentName, empSalary, salesPrice, taxRate,
Every Program should have header and footer having following information in multi-line comments
""
@author: RollNo Firstname Lastname
@description: Program No. - write short purpose/ description here
""
- Every Program should be with output of the Program in multi-line comment after the code of respective program.
- **Submission details:** Submit your assignment on lms.nuv.edu.in before the given submission date. Create one **.ZIP file** containing **all C/C++ programs** (.c and .cpp files) and **one word file**. Keep filename as **RollNo-Name-Assignment1.zip**.
- Programs submitted by a student should be the result of individual work based on his/her own efforts. Full or part of the code should not be copied from internet or from peer students or other sources. A student should not share/circulate the code/programs developed by them (for individual assignments) with their peers in any form. Violation of above will be considered as academic dishonesty and any such case will be strictly dealt with and liable to get zero in the evaluation.

Assignment - 4

Aim: Implementation of structure and Union

Structure and union are user defined datatypes in C which hold heterogeneous data items. This is analogous to the information held by a database in real world. Motivation for studying and implementing structure and union is that data in real world is always heterogeneous therefore, there should be a mechanism in place for holding that data. The students will learn to implement structure and union through this practical.

Requirements:

- 1) A desktop computer system
- 2) Code Blocks IDE

1	Write a C program to read and print students' details like Student Name, Enrolment number, Branch and semester using structure.
2	Write a C Program to create Student Structure in which accept student name, student roll no and marks of 5 subjects and its average and print in descending order using structure.

3	Write a C program to read and print employee details like employ name, employ id, employ organization name, employ salary using structure and print all the details at the end of program.
4	Write a C program for print student college details with using of structure within structure (nested structure) and pointer variable.
5	Write a c Program for print person details like name, address, age, occupation with using the Union and print person details at the end of program.