

Navrachana University
School of Engineering and Technology
Department of Computer Science and Engineering
Course: CS1008 Introduction to Computer Programming
Programming Assignment – 5

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 - 5

Aim: Implementation of Dynamic Memory Allocation and File handling

Dynamic Memory Allocation is used to allocate or free memory block to data at run time. This in turn facilitate dynamic data structures. Dynamic data structures provide flexibility in adding, deleting or rearranging data items at run time. File handling is a concept used for manipulating external files through program. The students will learn to implement DMA and file handling through this practical.

Requirements:

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

1	WAP to implement DMA functions malloc(), calloc(), realloc() and free().
2	WAP to implement file handling functions for opening, closing, writing and appending data to a file.