

CSE 215
Assignment Equivalent to CT After Midterm
Last date of Submission: 23-12-2020

Design the storage manager for a Database Management System with the following features:

File system for fixed length record implementation

You have to create a file to store binary data as per blocks. The block size is $(\text{your id mod } 10) + 1$ KB. You have to write algorithms to add blocks, insert blocks in any location in between blocks or at the end of the file, insert fixed length tuples into the blocks in both overlapping and non-overlapping mode, finding i^{th} tuple in the file for both overlapping and non-overlapping mode, deletion of i^{th} tuple, a set of tuples or range of tuples for both overlapping and non-overlapping mode, update of i^{th} tuple, a set of tuples or range of tuples for both overlapping and non-overlapping mode. You have to design header of the file to keep information about the number of blocks, tuples and pointer to the next tuple.