

LAB SHEET #10

Title: Data files and file handling in C Programming

Objective(s):

- To understand data files and file handling in C.

Write a program to read RollNo, Name, Address, Age & marks in physics, C, math in 1st semester of three students in BCT. Store the records into a file std.txt located at d:\ drive.

Display the student details with average marks achieved (use data files record I/O).

Source Code:

Output (Compilation, Debugging and Testing):

Discussion and Conclusion:

Lab Exercises (Please Code yourself and show the output to instructor):

1. Write characters into a file "filec.txt". The set of characters are read form the keyboard until an enter key is pressed (use putc() and getc() function).
2. Read characters form file "filec.txt" created in question 1. Also count the number of characters in the file (use fputs() and fgets() function).
3. Write set of strings each of length 40 into a file "stringc.txt" and display it (use fputs() and fgets() function).
4. Write name, age and height of a person into a data file "person.txt" and read it (use fprintf() and fscanf() function)
5. Write a program to replace DOS command "type" by "watch". The "watch" command is to be created by C program "watch.c" and read the file "filec.txt" written in question no 1. (In DOS, we use the command like #type filec.txt which is to be replaced like #watch filec.txt)
6. Write a program to read the records of 6 students (name, roll, marks obtained in percentage) and write into the file original_record.txt. Your program should sort the students on the basis of marks obtained in percentage, and finally store it to sorted_record.txt file.
7. Write a program to read the file of any extension(.txt, .mp4 etc) from storage. Your program should invert all the bits of the data that composes the file. And finally you should able to regain the original file by inverting all bits of the file again.(Optional)