

# C Programming Assignment 5

1. Write a program to represent time of the day in hrs, mins and secs. Use structures.
2. Define structure with two members (one int and other char). Also define a union with two members (one int and other char). Print the sizes of structure and union in number of bytes.
3. Write a menu driven C program to perform operations on Complex numbers. Use enumeration data type to identify the different operations on Complex numbers.
4. Write a program to find whether the given processor is little endian or big endian
5. Write a program to find out difference in days between any two dates. It must work regardless of the year, month and day. Consider Leap years while calculating the difference.
6. Write a C program to printing the same file on the console
7. Write a C program to open a file and store text (character type data) in one's complement form. Read the contents from the file and display as it is as well in one's complement form. Use command line arguments to pass file name to your C program
8. Develop sample programs using preprocessor operators #, ## and also conditional compilation
9. Write a program which reads a line of characters. Each character entered from the keyboard is tested to determine its case, and is then written to the data file in opposite case. Display the contents of the file. Also use ftell and fseek to determine the current file position and to change the file position
10. Write a program that will generate a data file containing a list of countries and their corresponding capitals. Write interactive code which will access the above created data file to perform the following operations
  - a) Determine the capital of a specified country
  - b) Determine the country whose capital is specified
  - c) Terminate the programme