**Jaypee University of Engineering and Technology, Guna**

**Department of Computer Science and Engineering**

**Object Oriented Programming Lab (18B17CI271)**

**Lab Exercise-9(File Handling)**

**[Imp Note: All the programs must be written in C++ with distinguished variable names. If any kind of plagiarism is observed, the punctuality marks (10) will be awarded by zero.]**

1. Write a program that creates a text file “TEXT.txt”on the disk. Write text on this file. Read this file and display the following information on the screen in two columns:

* Number of lines
* Number of words
* Number of characters

Strings should be left-justified and numbers should be right-justified in a suitable field width. Also handle the error by displaying suitable error message.

1. Write a program to read the file and store the lines into an array. Also handle the error by displaying suitable error message.
2. Write a program to copy a file in another name. Also handle the error by displaying suitable error message.
3. Write a program to merge two files and write it in a new file. Also handle the error by displaying suitable error message.
4. Write a program to encrypt and decrypt a text file. Also handle the error by displaying suitable error message.

**Advanced Problem:**

1. Write the sorted list of integers in two files named ‘Source1’ and ‘Source2’. Write a program that reads the contents of both the files and stores the merged list in sorted form in a new file named ‘Target’. Also handle the error by displaying suitable error message.
2. In a loop, prompt the user to enter name data consisting of a first name, middle initial, last name, and employee number (type unsigned long). Then, using formatted I/O with the insertion (<<) operator, write these four data items to a file using an ofstream object. Don’t forget that strings must be terminated with a space or other whitespace character. When the user indicates that no more name data will be entered, close the ofstream object, open an ifstream object, read and display all the data in the file, and terminate the program