1. Write a program to read a file and display its contents along with line numbers before each line.
2. Write a program to copy the contents of one file to another, while doing so replace all lowercase characters with their equivalent uppercase characters.
3. Write a program to encrypt/decrypt a file using a substitution cipher: in this, each character read from the source file is substituted by a corresponding predetermined character and this character is written to the target file. For example, if the character ‘A’ is read from the source file, and if we have decided that every ‘A’ is to be substituted by ‘!’, then a ‘!’ would be written to the target file in place of every ‘A’. Similarly, every ‘B’ would be substituted by ‘5’ and so on.
4. Given a text file, write a program to create another text file deleting the words ‘a’, ‘the’, ‘an’ and replacing each one of them with a blank space.
5. Write a program to carry out the following:
    a. Read a text file ‘Input.Txt’
    b. Print each word in reverse order
6. Write down macro definitions for the following:
    1. To find the arithmetic mean of two numbers.
    2. To find the absolute value of a number.
    3. To convert an uppercase alphabet to lowercase.
    4. To obtain the bigger of two numbers.
7. Write down macro definitions for the following:
    1. To test whether a character entered is a small case letter or not.
    2. To test whether a character entered is an upper case letter or not.
    3. To test whether a character is an alphabet or not. Make use of the macros you defined in (1) and (2) above.
8. Create an enumerated data type logical with TRUE and FALSE values. write a program to check whether the entered number is prime or not prime. if the number is prime display 0 otherwise 1. use enumerated datatype
9. Create an enumerated datatype for 12 months and display the values in the integer.
10. Create a user-defined datatype from a structure. The structure should contain the variables such as name, regno, cgpa, and age of students. use array of structures.