S.No: 30	Exp. Name: *Write a C program to Merge two Files and stores their contents in another File*	Date:2023-06-19

Aim:

Write a program to `merge` two files and stores their contents in another file.
- Open a new file "`SampleDataFile1.txt`" in write mode
- Write the content onto the file
- Close the file
- Open another new file "`SampleDataFile2.txt`" in write mode
- Write the content onto the file
- Close the file
- Open first existing file "`SampleDataFile1.txt`" in read mode
- Open a new file "`SampleDataFile3.txt`" in write mode
- Copy the content from first existing file to new file
- Close the first existing file
- Open another existing file "`SampleDataFile2.txt`" in read mode
- Copy its content from existing file to new file
- Close that existing file
- Close the merged file

Source Code:

`Merge.c`

```c
#include<stdio.h>
void main()
{
    FILE *fp1, *fp2, *fp3;
    char ch;
    fp1 = fopen("SampleDataFile1.txt","w");
    printf("Enter the text with @ at end for file-1 :\n");
    while ((ch = getc(stdin))!='@')
    {
        putc(ch,fp1);
    }
    putc(ch,fp1);
    fclose(fp1);
    fp2 = fopen("SampleDataFile2.txt", "w");
    printf("Enter the text with @ at end for file-2 :\n");
    while ((ch = getc(stdin))!='@')
    {
        putc(ch,fp2);
    }
    putc(ch,fp2);
    fclose(fp2);
    fp1 = fopen("SampleDataFile1.txt", "r");
    fp3 = fopen("SampleDataFile3.txt", "w");
    while ((ch = getc(fp1))!='@')
    {
        putc(ch, fp3);
    }
    fclose(fp1);
    fp2 = fopen("SampleDataFile2.txt", "r");
    while ((ch = getc(fp2))!='@')
    {
```

```
        putc(ch,fp3);
    }
    putc(ch,fp3);
    fclose(fp2);
    fclose(fp3);
    fp3 = fopen("SampleDataFile3.txt", "r");
    printf("Merged text is : ");
    while((ch = getc(fp3))!='@')
    {
        putchar(ch);
    }
    printf("\n");
    fclose(fp3);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the text with @ at end for file-1 : CodeTantra developed an interactive tool
in the year 2014
CodeTantra got best Startup award in 2016@
Enter the text with @ at end for file-2 : Now lot of Companies and Colleges using CodeTantr
Merged text is : CodeTantra developed an interactive tool
in the year 2014
CodeTantra got best Startup award in 2016
Now lot of Companies and Colleges using CodeTantra Tool