## 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:

Program1503.c

```c
#include <stdio.h>
void main() {
    FILE *fp1, *fp2, *fp3;
    char ch;
    fp1 = fopen("SampleDataFile1.txt", "w"); // Open file in corresponding mode
    printf("Enter the text with @ at end for file-1 :\n");
    while ((ch=getchar())!='@') { // Write the condition
        putc(ch, fp1);
    }
    putc(ch, fp1);
    fclose(fp1);
    fp2 = fopen("SampleDataFile2.txt", "w"); // Open file in corresponding mode
    printf("Enter the text with @ at end for file-2 :\n");
    while ((ch=getchar())!='@') { // Write the condition
        putc(ch, fp2);
    }
    putc(ch, fp2);
    fclose(fp2);
    fp1 = fopen("SampleDataFile1.txt", "r"); // Open a first existed file in read mode
    fp3 = fopen("SampleDataFile3.txt", "w"); // Open a new file in write mode
    while ((ch=getc(fp1))!='@') { // Repeat loop till get @ at the end of existed file
        putc(ch, fp3);
    }
    fclose(fp1); // Close the first existed file
    fp2 = fopen("SampleDataFile2.txt", "r"); // Open a secong existed file in read mode
    while ((ch=getc(fp2))!='@') { // Repeat loop till get @ at the end of existed file
        putc(ch, fp3);
    }
    putc(ch, fp3);
    fclose(fp2);
```

```
    fclose(fp3);
    fp3 = fopen("SampleDataFile3.txt", "r"); // Open the merged file in read mode
    printf("Merged text is : ");
    while ((ch=getc(fp1))!='@') { // Repeat loop till get @ at the end of merged file
        putchar(ch);
    }
    printf("\n");
    fclose(fp3); // Close the merged file
}
```

## Execution Results - All test cases have succeeded!

| Test Case - 1 |
|---|
| User Output |
| Enter the text with @ at end for file-1 : CodeTantra@ |
| Enter the text with @ at end for file-2 : Interactive Tool@ |
| Merged text is : CodeTantra |
| Interactive Tool |

| Test Case - 2 |
|---|
| 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 |