S.No: 32	Exp. Name: ***Write a C program to Copy last n characters from one File to another File***	Date:2023-07-02

Aim:

Write a program to `copy` last `n` characters from **file-1** to **file-2**.

- open a new file "`TestDataFile1.txt`" in write mode
- write the content onto the file
- close the file
- open an existing file "`TestDataFile1.txt`" in read mode
- open a new file "`TestDataFile2.txt`" in write mode
- read the number of characters to copy
- set the cursor position by using fseek()
- copy the content from existing file to new file
- close the files
- open the copied file "`TestDataFile2.txt`" in read mode
- read the text from file and print on the screen
- close the file

Source Code:

Copy.c

```
#include <stdio.h>
void main()
{
   FILE *fp, *fp1, *fp2;
   int num, length;
   char ch;
   fp = fopen("TestDataFile1.txt", "w");
   printf("Enter the text with @ at end : ");
   while ((ch = getchar()) != '@')
   {
      putc(ch, fp);
   }
   putc(ch, fp);
   fclose(fp);
   fp1 = fopen("TestDataFile1.txt", "r");
   fp2 = fopen("TestDataFile2.txt", "w");
   printf("Enter number of characters to copy : ");
   scanf("%d", &num);
   fseek(fp1, 0L, SEEK_END);
   length = ftell(fp1);
   fseek(fp1, (length - num - 1), SEEK_SET);
   while ((ch = getc(fp1)) != '@')
   {
      putc(ch, fp2);
   }
   putc(ch, fp2);
   fclose(fp1);
   fclose(fp2);
   fp2 = fopen("TestDataFile2.txt", "r");
   printf("Copied text is : ");
   while ((ch = getc(fp2)) != '@')
   {
```


ID: 224G1A0530
2022-2026-CSE-A
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```
    printf("\n");
    fclose(fp2);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the text with @ at end : We should not give up
and we should not allow the problem to defeat us@
Enter number of characters to copy : 15
Copied text is : em to defeat us

Test Case - 2
User Output
Enter the text with @ at end : You have to dream
before
Your dreams can come true@
Enter number of characters to copy : 20
Copied text is : dreams can come true

ID: 224G1A0530