S.No: 32	Exp. Name: ***Write a C program to Copy last n characters from one File to another File***	Date:2023-06-16

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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>
#include<string.h>
void stringReverse(char[]);
void main(){
   FILE *fp,*fn;
   int num,i;
   char ch,data[100];
   fp = fopen("TestDataFile1.txt","w+");
   printf("Enter the text with @ at end : ");
   while((ch=getchar())!='@'){
      putc(ch,fp);
   }
   putc(ch,fp);
   fclose(fp);
   fp = fopen("TestDataFile1.txt","r");
   fn = fopen("TestDataFile2.txt","w+");
   int n;
   i=0;
   printf("Enter number of characters to copy : ");
   scanf("%d",&n);
   fseek(fp,-n-2,2);
   ch=fgetc(fp);
   while(ch!='@'){
      ch=getc(fp);
      putc(ch,fn);
   }
   fputc('\0',fn);
   fclose(fp);
   fclose(fn);
   printf("Copied text is : ");
   fp = fopen("TestDataFile2.txt","r");
   while((ch=getc(fp))!='@'){
      putchar(ch);
```

```
    }
    printf("\n");
    fclose(fp);
}
```


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