

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)) != '@')
    {
        putchar(ch);
    }
}
```

```
}  
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