

**Aim:**

Write a program to reverse the first n characters in a file.

- open a new file "TestDataFile3.txt" in read/write mode
- write the content onto the file
- read the number of characters to copy
- copy the specified number of characters into a string
- reverse the string
- overwrite the entire string into the file from the beginning
- close the file
- open the copied file "TestDataFile3.txt" in read mode
- read the text from file and print on the screen
- close the file

**Source Code:****Program1506.c**

```
#include<stdio.h>
#include<string.h>
void stringRevers(char[]);
void main() {
    FILE *fp;
    int num, i;
    char ch,data[100];
    fp = fopen("TestDataFile3.txt","w+");
    printf("Enter the text with @ at end : ");
    while((ch = getchar()) != '@') {
        putc(ch, fp);
    }
    putc(ch, fp);
    printf("Enter number of characters to copy : ");
    scanf("%d", &num);
    i = 0;
    rewind(fp);
    while(i < num) {
        data[i] = getc(fp);
        i++;
    }
    data[i] = '\0';
    rewind(fp);
    stringReverse(data);
    fputs(data, fp);
    fclose(fp);
    fp= fopen("TestDataFile3.txt","r");
    printf("Result is : ");
    while((ch = getc(fp)) != '@') {
        putchar(ch);
    }
    printf("\n");
    fclose(fp);
}

void stringReverse(char data[100]) {
    int i, j;
```

```

char temp;
i = j = 0;
while(data[j] != '\0') {
    j++;
}
j--;
while(i < j) {
    temp = data[i];
    data[i] = data[j];
    data[j] = temp;
    i++;
    j--;
}
}

```

### Execution Results - All test cases have succeeded!

| Test Case - 1                                   |
|---|
| User Output                                     |
| Enter the text with @ at end : Teaching is a    |
| very noble profession that shapes the           |
| character, caliber and future of an individual@ |
| Enter number of characters to copy : 18         |
| Result is : yrev                                |
| a si gnihcaeT noble profession that shapes the  |
| character, caliber and future of an individual  |

| Test Case - 2                            |
|--|
| User Output                              |
| Enter the text with @ at end : Small aim |
| is a crime; have great aim@              |
| Enter number of characters to copy : 11  |
| Result is : i                            |
| mia llamSs a crime; have great aim       |