

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 stringReverse(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);
}
```

```

int l=0, n;
n=strlen(data)-1;
while(l<n)
{
    temp=data[l];
    data[l]=data[n];
    data[n]=temp;
    l++;
    n--;
}
}

```

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