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 begining
- 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

```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);
    }
    fclose(fp);
```

```
      printf("\n");
}
void stringReverse(char data[100])
{
    char temp;
    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