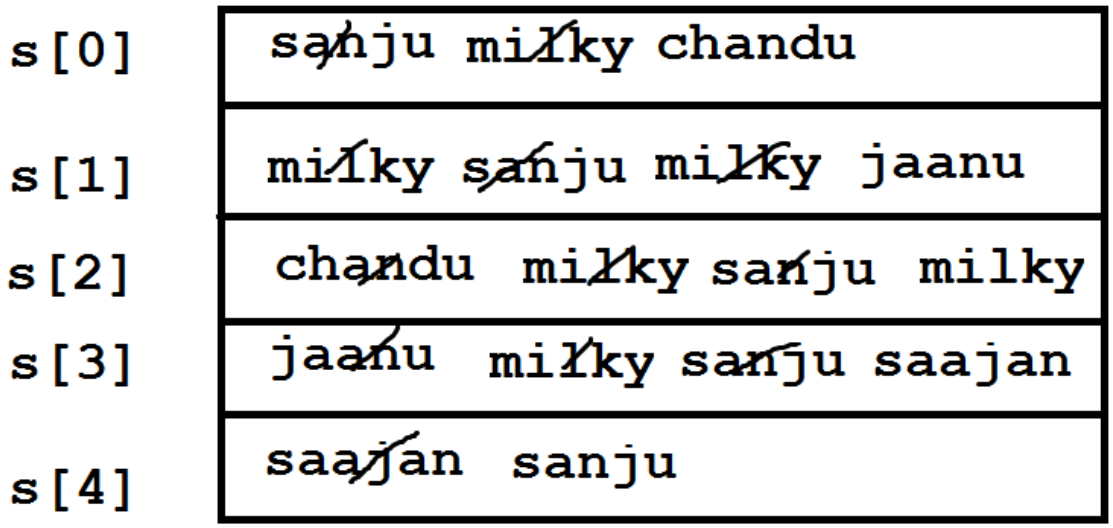
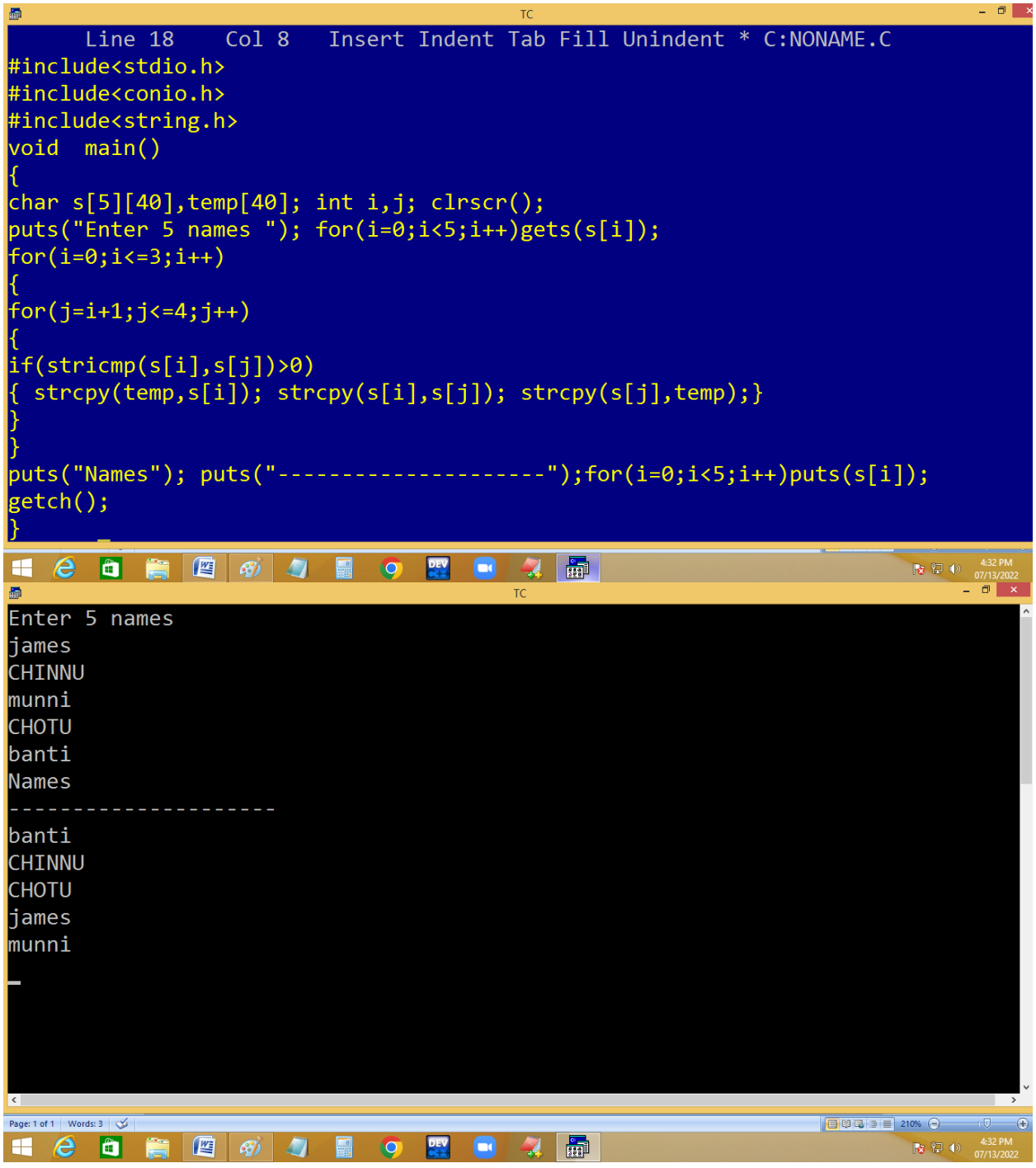
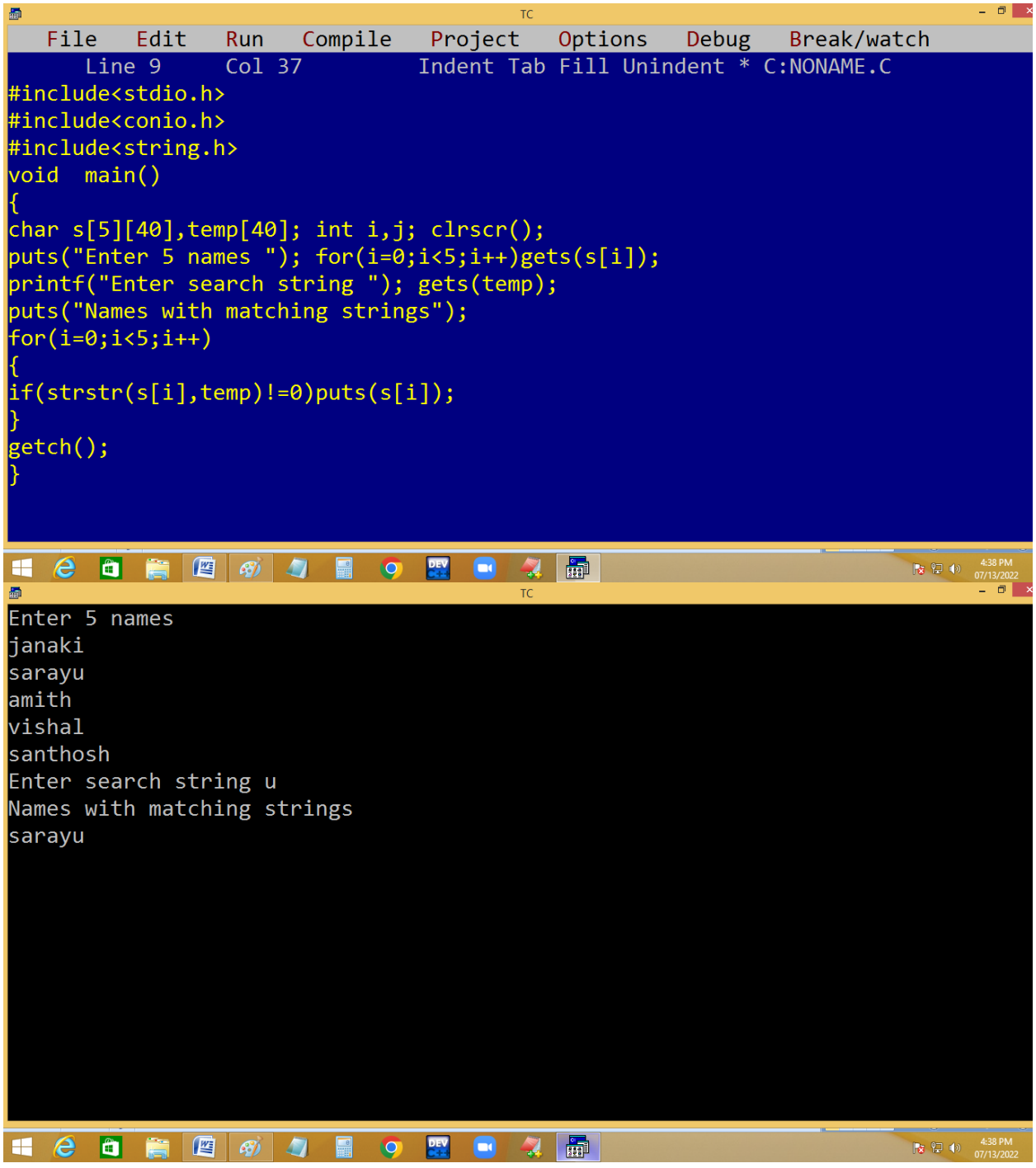
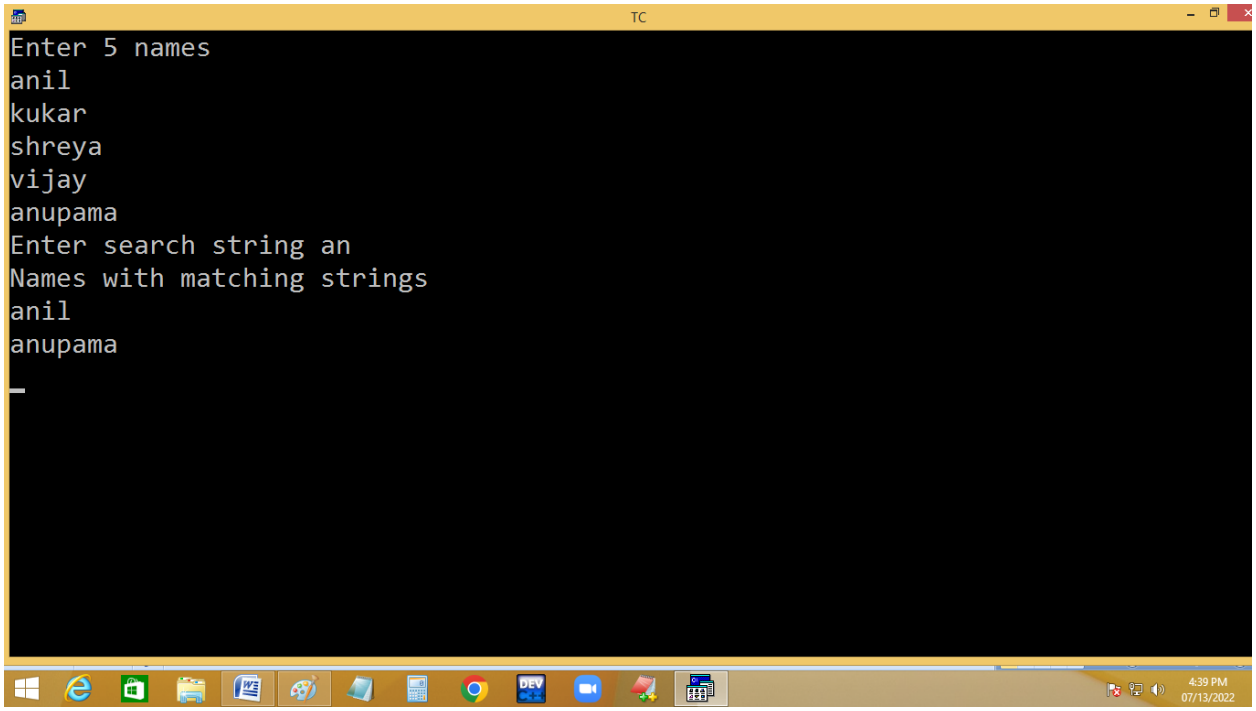
Sorting of strings:





Searching for matching string:


TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 37 Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s[5][40],temp[40]; int i,j; clrscr();
puts("Enter 5 names "); for(i=0;i<5;i++)gets(s[i]);
printf("Enter search string "); gets(temp);
puts("Names with matching strings");
for(i=0;i<5;i++)
{
if(strstr(s[i],temp)!=0)puts(s[i]);
}
getch();
}
TC
Enter 5 names
janaki
sarayu
amith
vishal
santhosh
Enter search string u
Names with matching strings
sarayu



POINTERS

Pointer is a variable, which holds the address of another variable of same type.

Pointer is a memory location, which holds the address of another memory location.

Pointer is a derived data type.

Advantages:

1. Dynamic memory allocation.

2. Program performance is increased due to preventing memory wastage.
3. They are very much used in System programming.
4. They are very much used in dynamic linked list & Stacks [data structures].
5. It allows to access a local variable outside the function i.e. data sharing between functions. [call by address].
6. To handle strings, arrays etc in functions we need pointers.
7. To handle data files we are using pointers.
8. They directly works on variable address. Due to this search time is reduced and execution speed is increased.

Disadvantage:

They are not secured and make programmer complex.