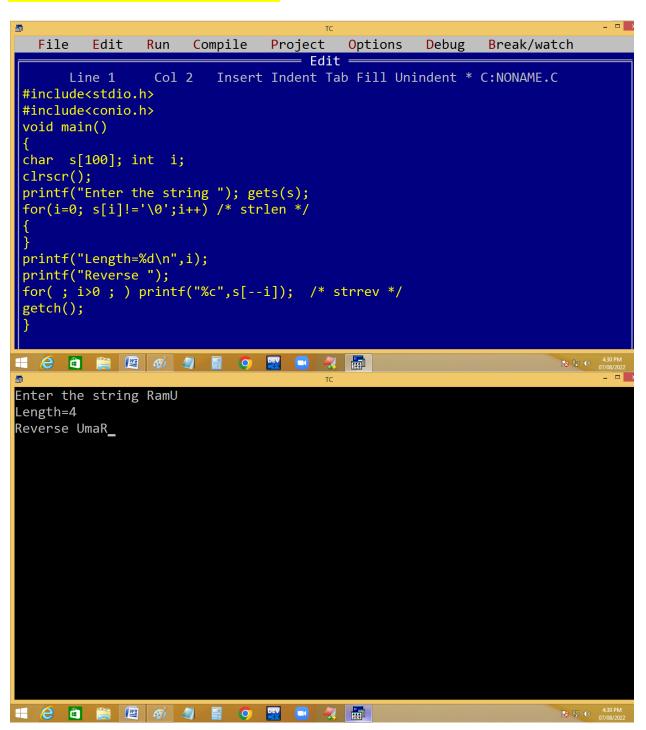
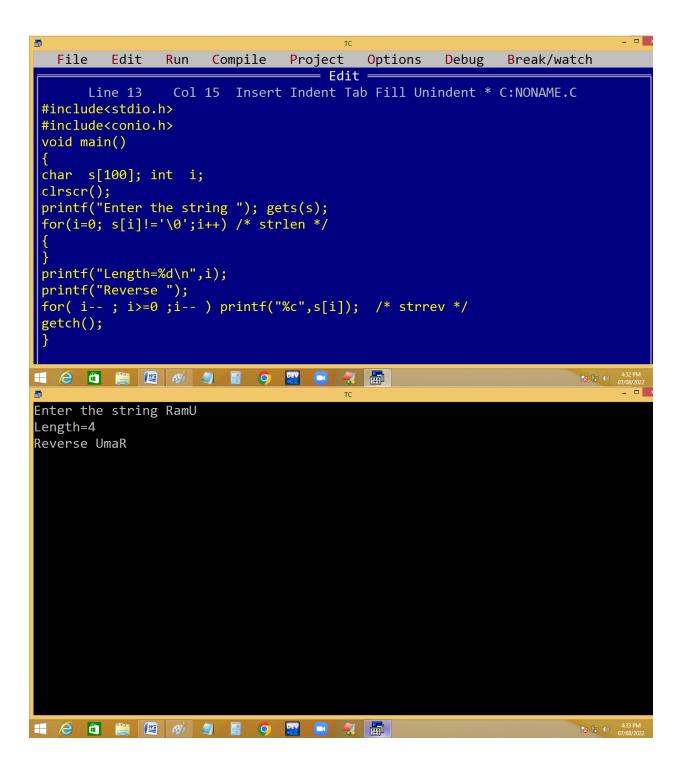
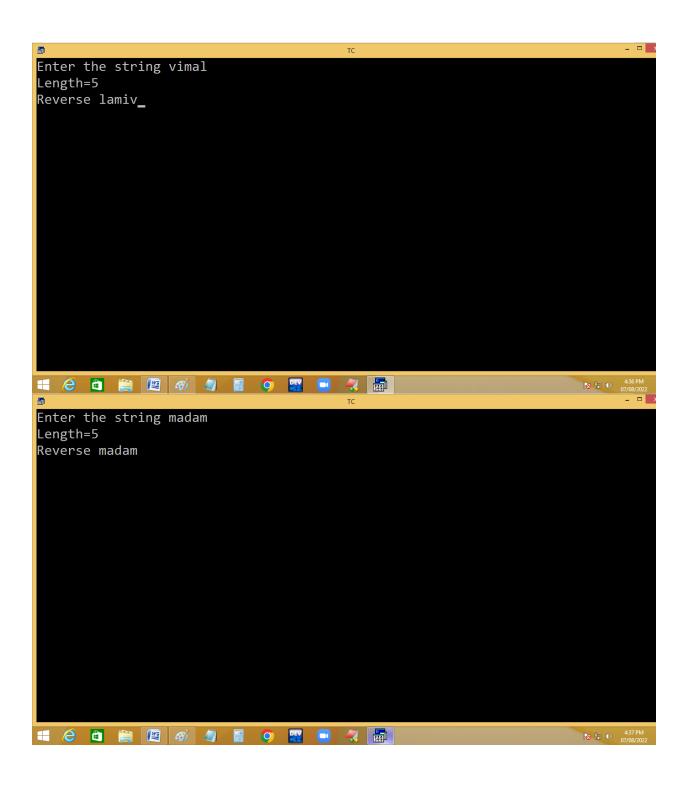
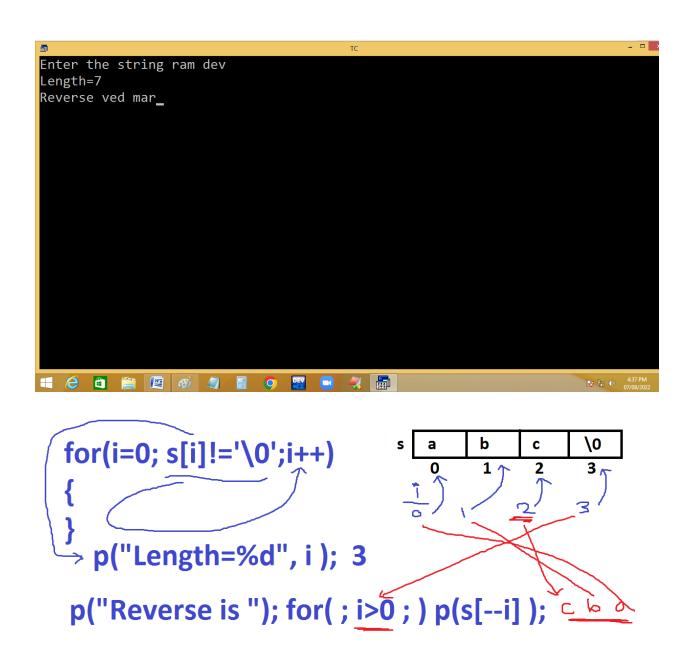
Eg. finding string length and reverse string using a user defined program.





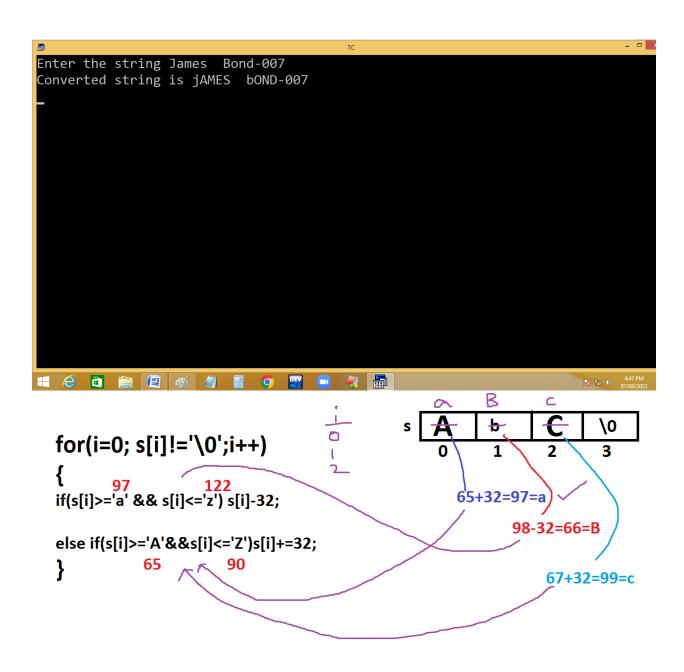
```
File Edit Run Compile Project Options Debug Break/watch
                          ——— Edit —
      Line 11 Col 33 Insert Indent Tab Fill Unindent * C:NONAME.C
 #include<stdio.h>
 #include<conio.h>
 void main()
 char s[100]; int i;
 clrscr();
printf("Enter the string "); gets(s);
 for(i=0; s[i];i++); /* strlen */
 printf("Length=%d\n",i);
printf("Reverse ");
 for( i-- ; i>=0 ;i-- ) putchar(s[i]); /* strrev */
 getch();
4:36 PM
07/08/2022
```





Eg. lower to upper / upper to lower:

```
File Edit Run Compile Project Options Debug Break/watch
                             — Edit —
     Line 13 Col 36 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
char s[100]; int i;
clrscr();
printf("Enter the string "); gets(s);
for(i=0; s[i];i++)
if(s[i]>='a' \&\& s[i]<='z') s[i]==32; /* s[i]=s[i]=32; strupr */
else if(s[i]>='A' && s[i]<='Z')s[i]+=32; /*s[i]=s[i]+32; strlwr */
printf("Converted string is %s\n",s);
getch();
```



Eg. Finding the no of vowels, consonants, digits, spaces and special characters, in given string.

#include<stdio.h>

#include<conio.h>

```
#include<ctype.h>
void main()
char s[100]; int i, v,c,d,spa,spe;
clrscr();
v=c=d=spa=spe=0;
printf("Enter the string "); gets(s);
for(i=0; s[i];i++)
s[i]=tolower(s[i]);
if(s[i]>='0'&&s[i]<='9')d++;
else if(s[i]==' ')spa++;
else if(s[i]>='a' &&s[i]<='z')
{
```

```
if(s[i]=='a'||s[i]=='e'||s[i]=='i'||s[i]=='o'||s[i]=='u')
V++;
else c++;
else spe++;
}
printf("Vowels=%d\nConsonants=%d\nDigits=%d\
nSpaces=%d\nSpecial=%d",
v,c,d,spa,spe);
getch();
```

```
Enter the string Bahu Bali-2
Vowels=4
Consonants=4
Digits=1
Spaces=1
Special=1_

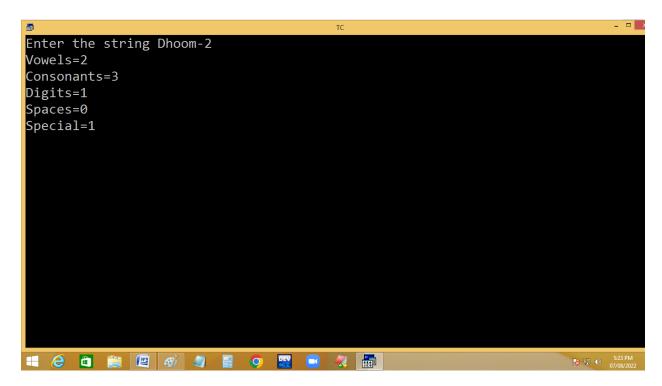
Special=1
```

Without using tolower():

```
#include<stdio.h>
#include<conio.h>
void main()
{
    char s[100]; int i, v,c,d,spa,spe;
    clrscr();
v=c=d=spa=spe=0;
printf("Enter the string "); gets(s);
```

```
for(i=0; s[i];i++)
{
if(s[i] > = 'A' \&\& s[i] < = 'Z')s[i] + = 32;
if(s[i]>='0'&&s[i]<='9')d++;
else if(s[i]==' ')spa++;
else if(s[i]>='a' &&s[i]<='z')
{
if(s[i]=='a'||s[i]=='e'||s[i]=='i'||s[i]=='o'||s[i]=='u')
V++;
else c++;
else spe++;
}
printf("Vowels=%d\nConsonants=%d\nDigits=%d\
nSpaces=%d\nSpecial=%d",
```

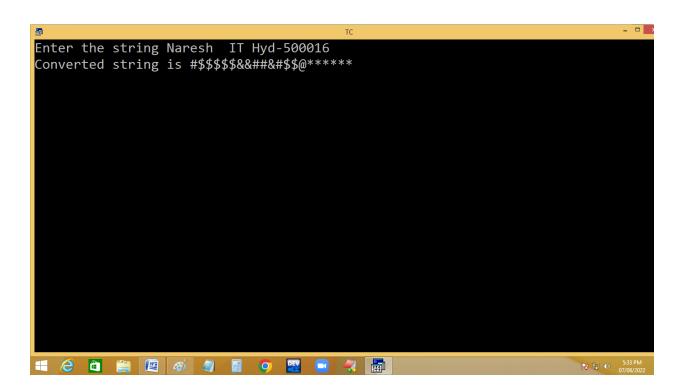
```
v,c,d,spa,spe);
getch();
}
```



Eg. encrypting data.

Read a string and replaceall the lower case char / upper case / digits /spaces / special char with \$ / # / * / & / @

```
File Edit Run Compile Project Options Debug Break/watch
     Line 5
               Col 23 Insert Indent Tab Fill Unindent
                                                      C:VO.C
#include<stdio.h>
#include<conio.h>
void main()
char s[100]; int i; clrscr();
printf("Enter the string "); gets(s);
for(i=0; s[i];i++)
if(s[i]>='A' && s[i]<='Z')s[i]='#';
else if(s[i]>='a'&&s[i]<='z')s[i]='$';
else if(s[i]==' ')s[i]='&';
else if(s[i]>='0' &&s[i]<='9')s[i]='*';
else s[i]='@';
printf("Converted string is %s",s);
getch();
5:33 PM
07/08/2022
```



Eg. printing string as follows → Abc

Abc

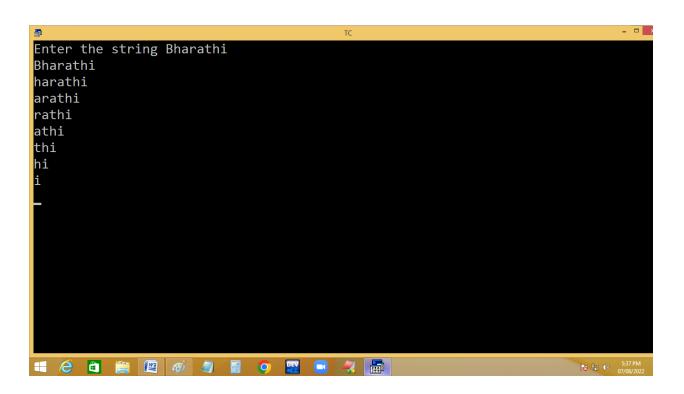
bc

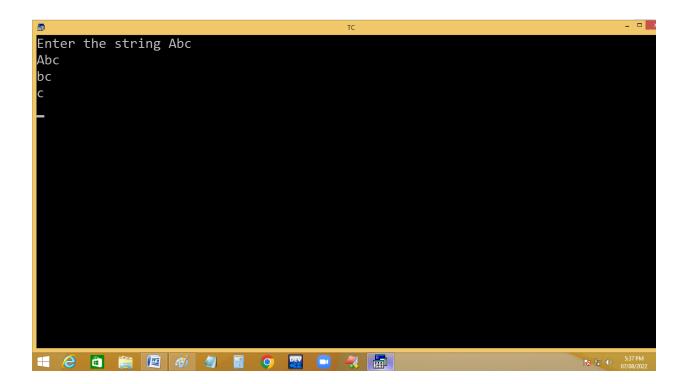
C

```
File Edit Run Compile Project Options Debug Break/watch

Line 8 Col 1 Insert Indent Tab Fill Unindent * C:VO.C

#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i; clrscr();
printf("Enter the string "); gets(s);
for(i=0; s[i];i++)puts(s+i);
getch();
}
```







```
File Edit Run Compile Project Options Debug Break/watch
      Line 7
                Col 29 Insert Indent Tab Fill Unindent * C:VO.C
#include<stdio.h>
#include<conio.h>
void main()
char s[100]; int i; clrscr();
printf("Enter the string "); gets(s);
for(i=0; s[i];i++)printf("%s\n",s+i);
getch();
Px □ ♠ 5:43 PM 07/08/2022
                                                                        _ 🗆 🗅
Enter the string Keerthi
Keerthi
eerthi
erthi
rthi
thi
hi
```

Home work:

I miss you jaanu 🗲 4

I am proud to be Indian

6