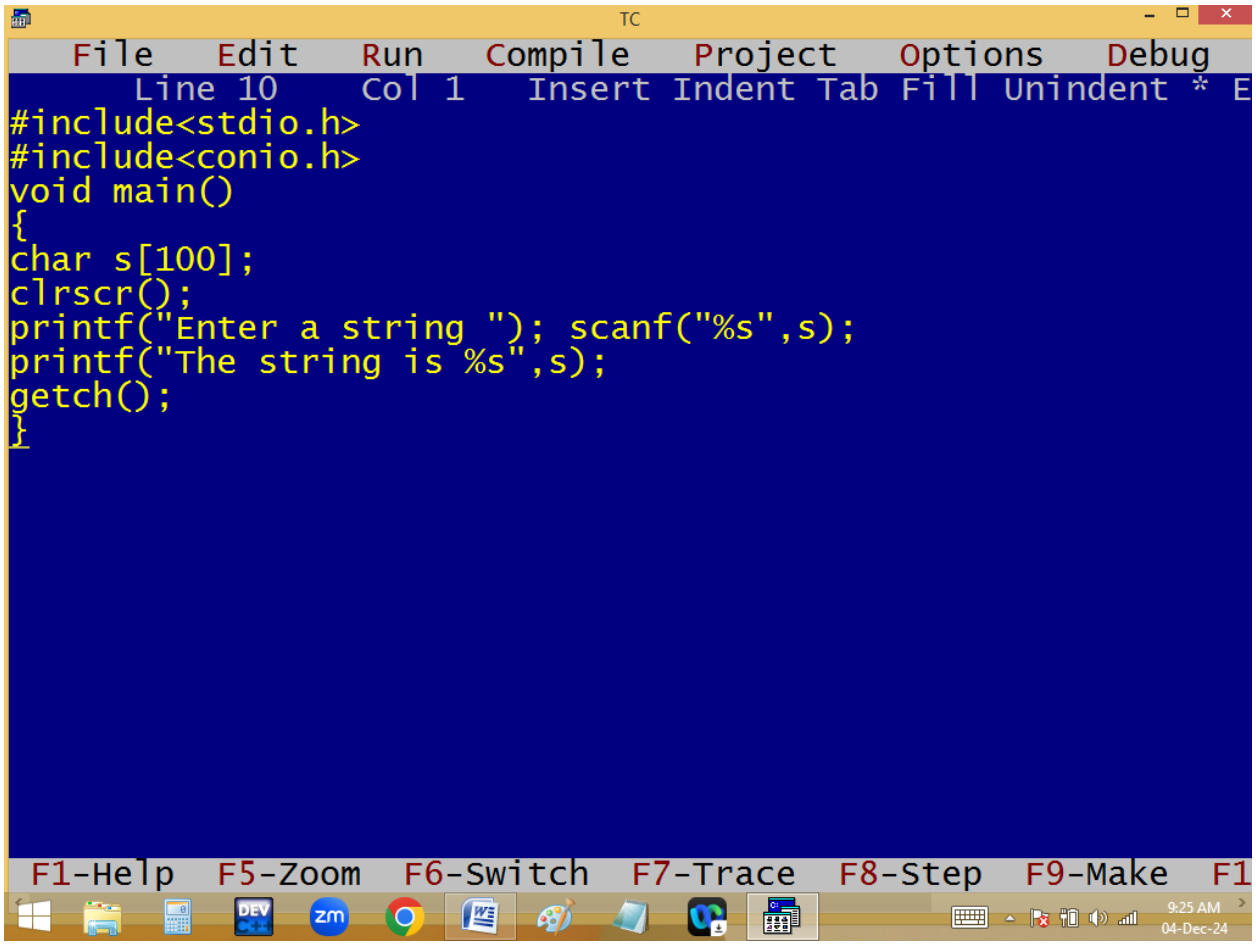
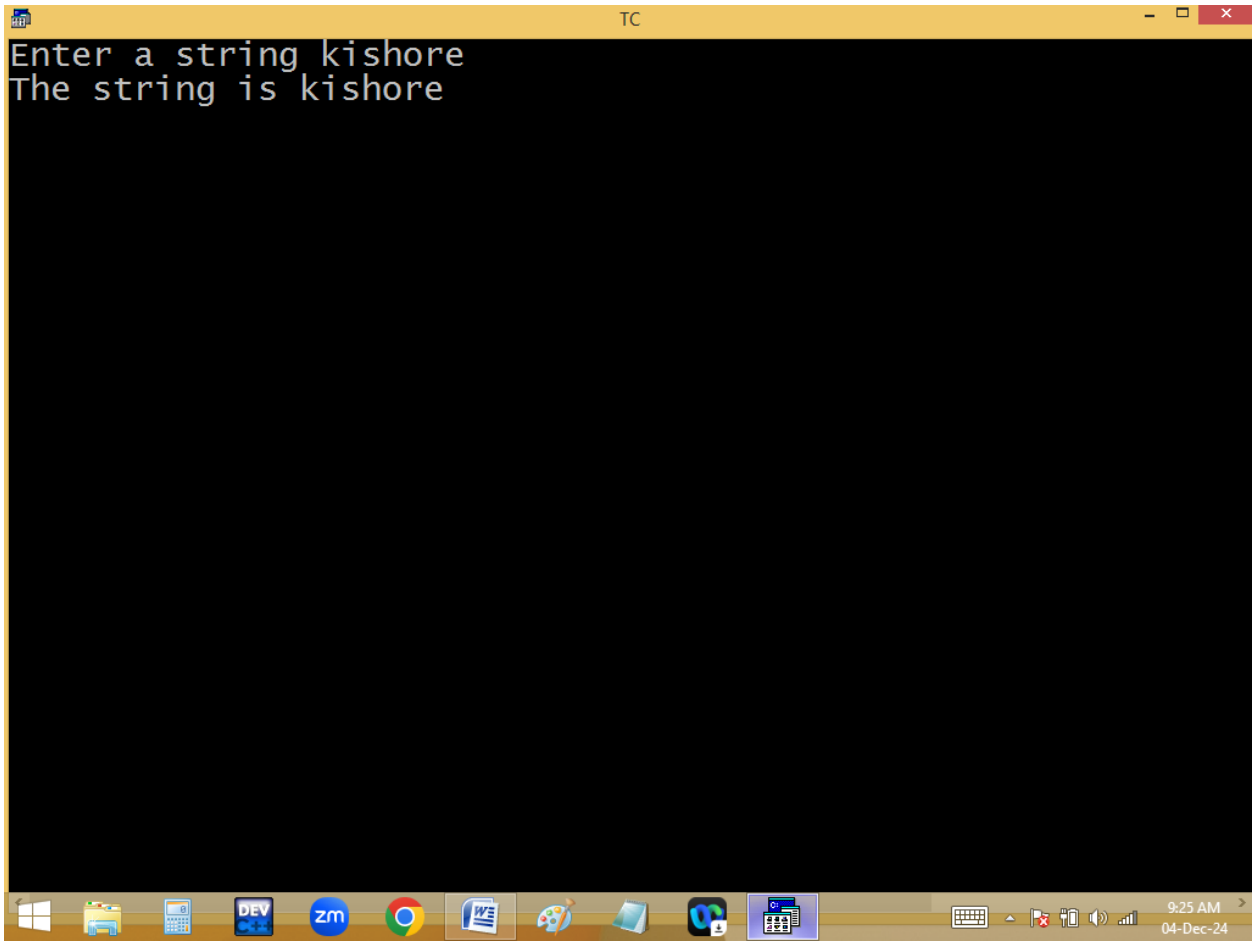
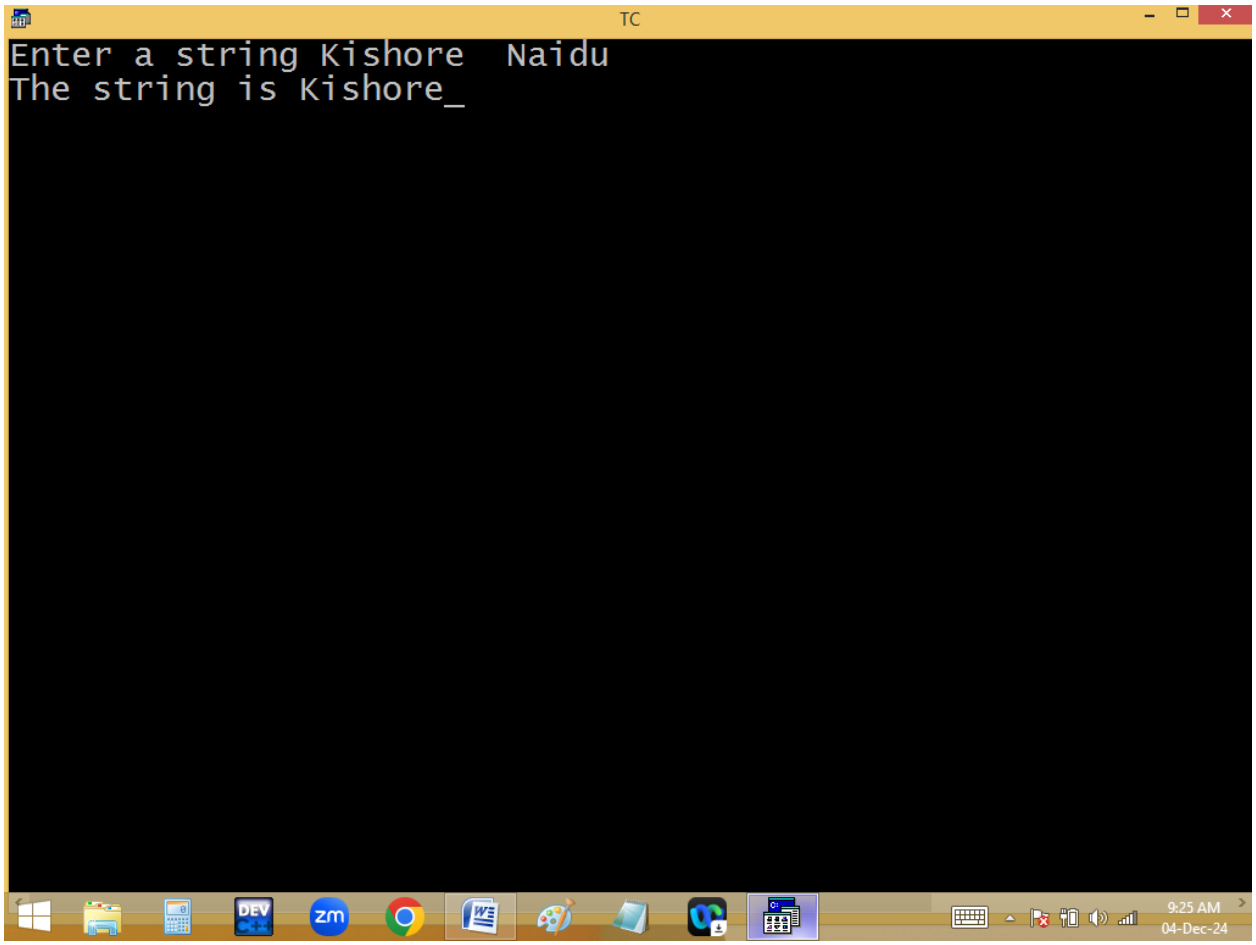
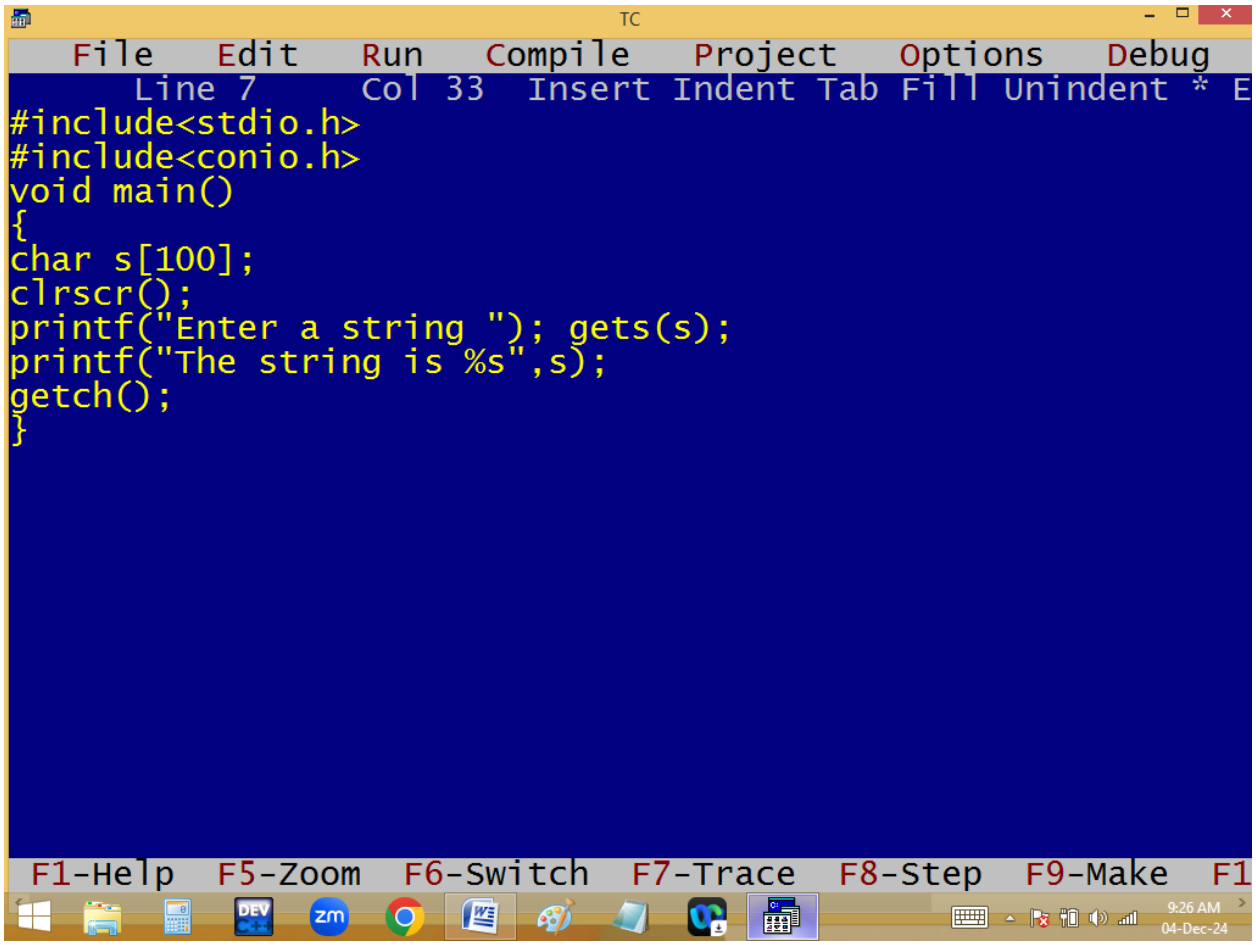
Reading and printing a string:

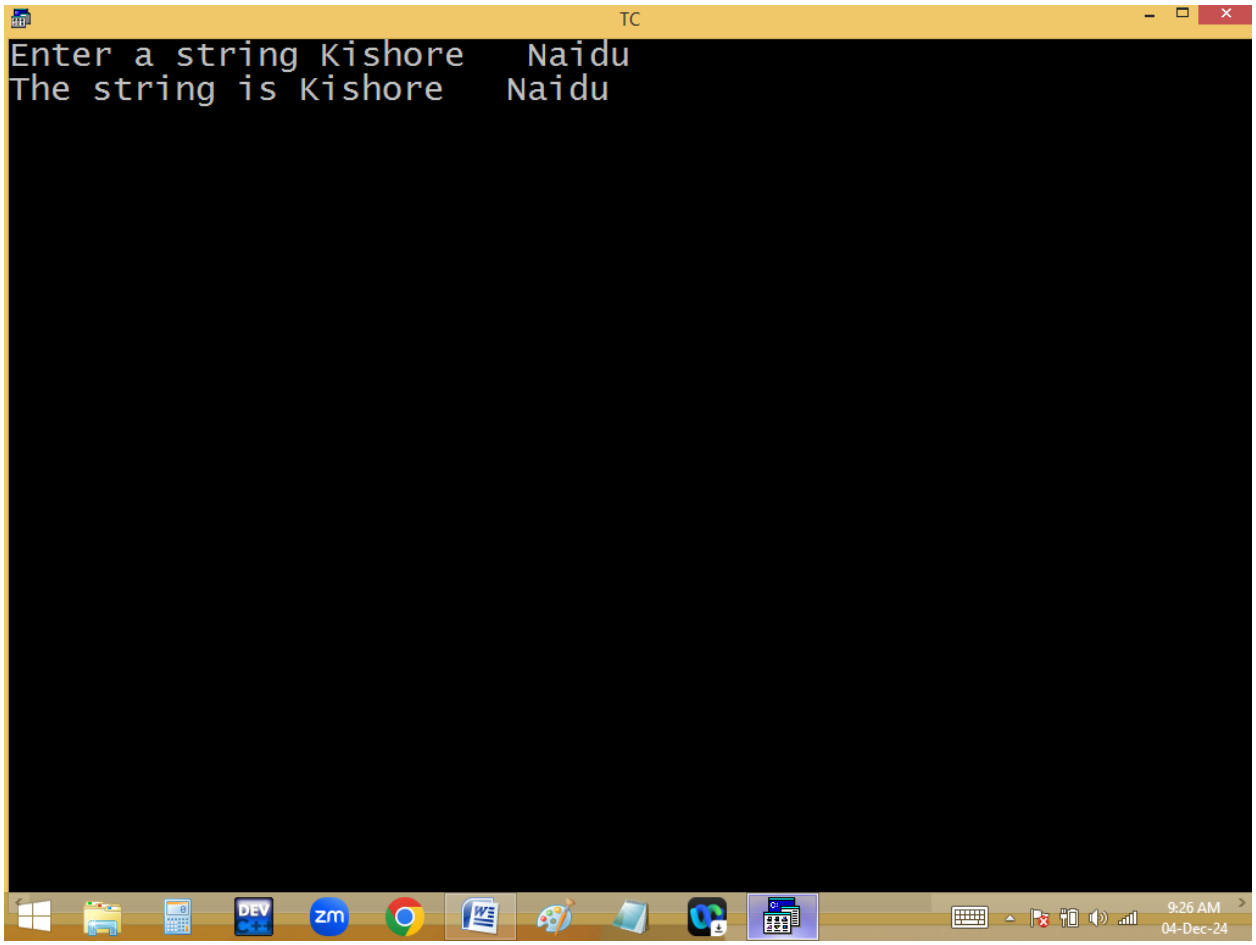

TC
File Edit Run Compile Project Options Debug
Line 10 Col 1 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%s",s);
printf("The string is %s",s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:25 AM
04-Dec-24

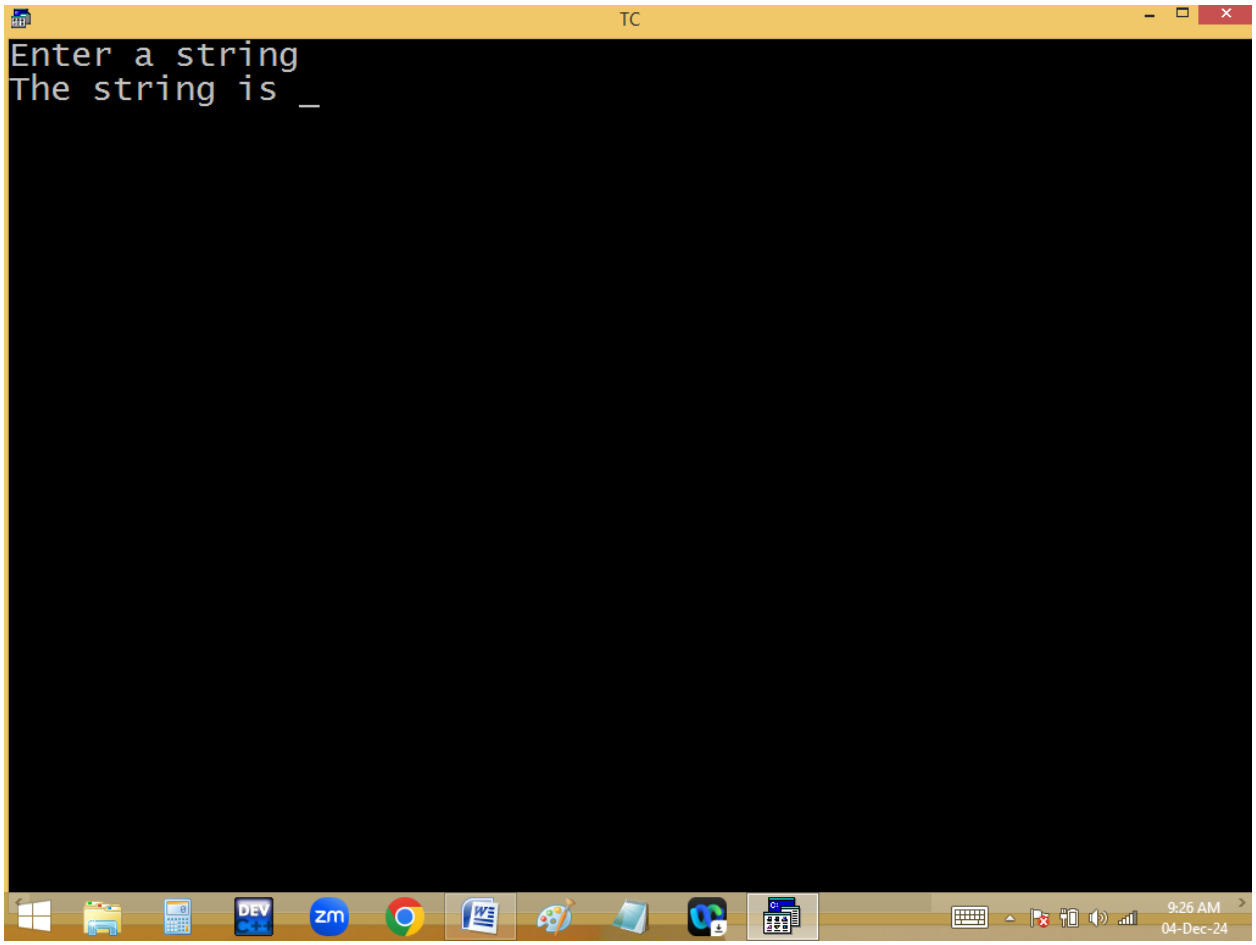

TC
Enter a string kishore
The string is kishore
9:25 AM
04-Dec-24

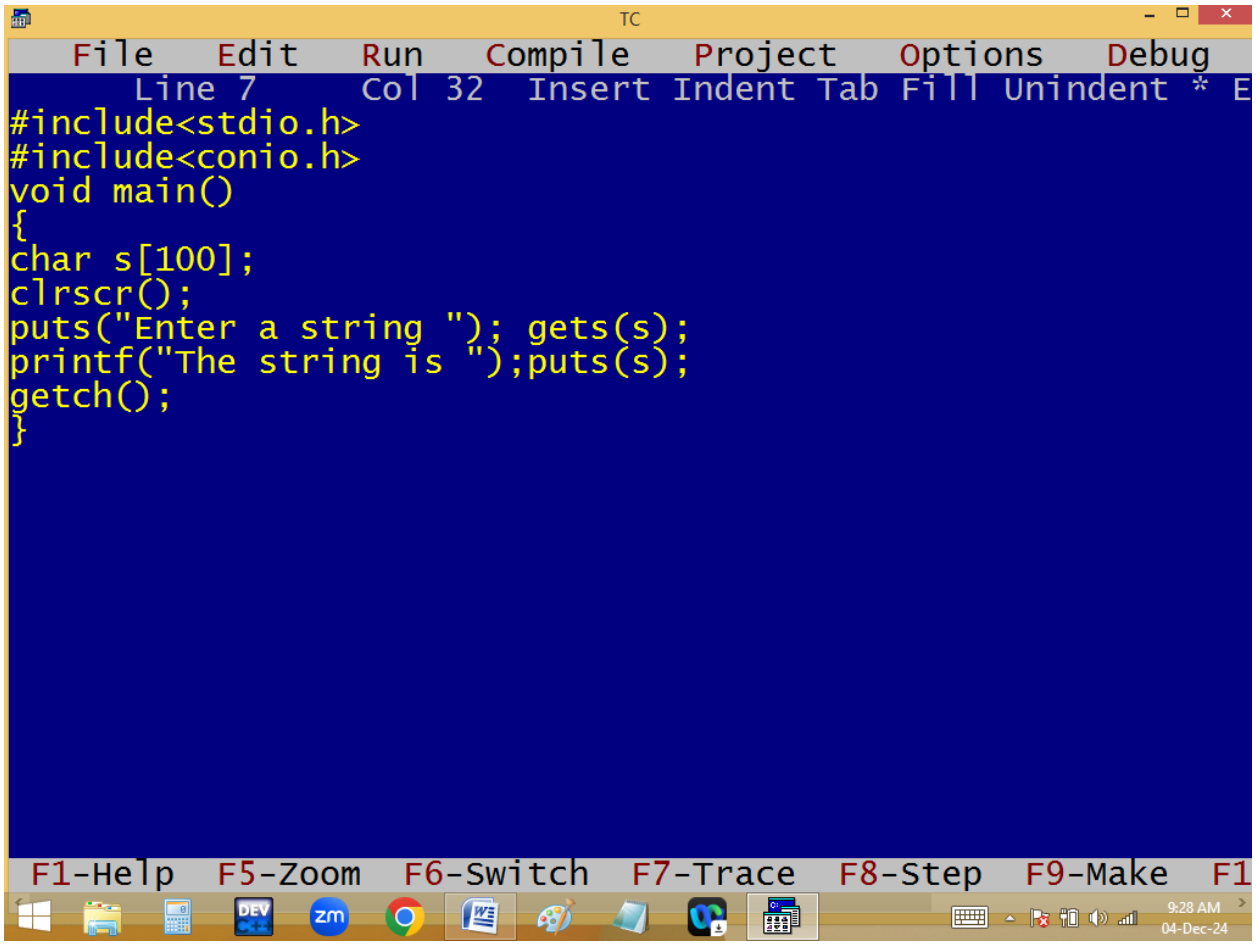


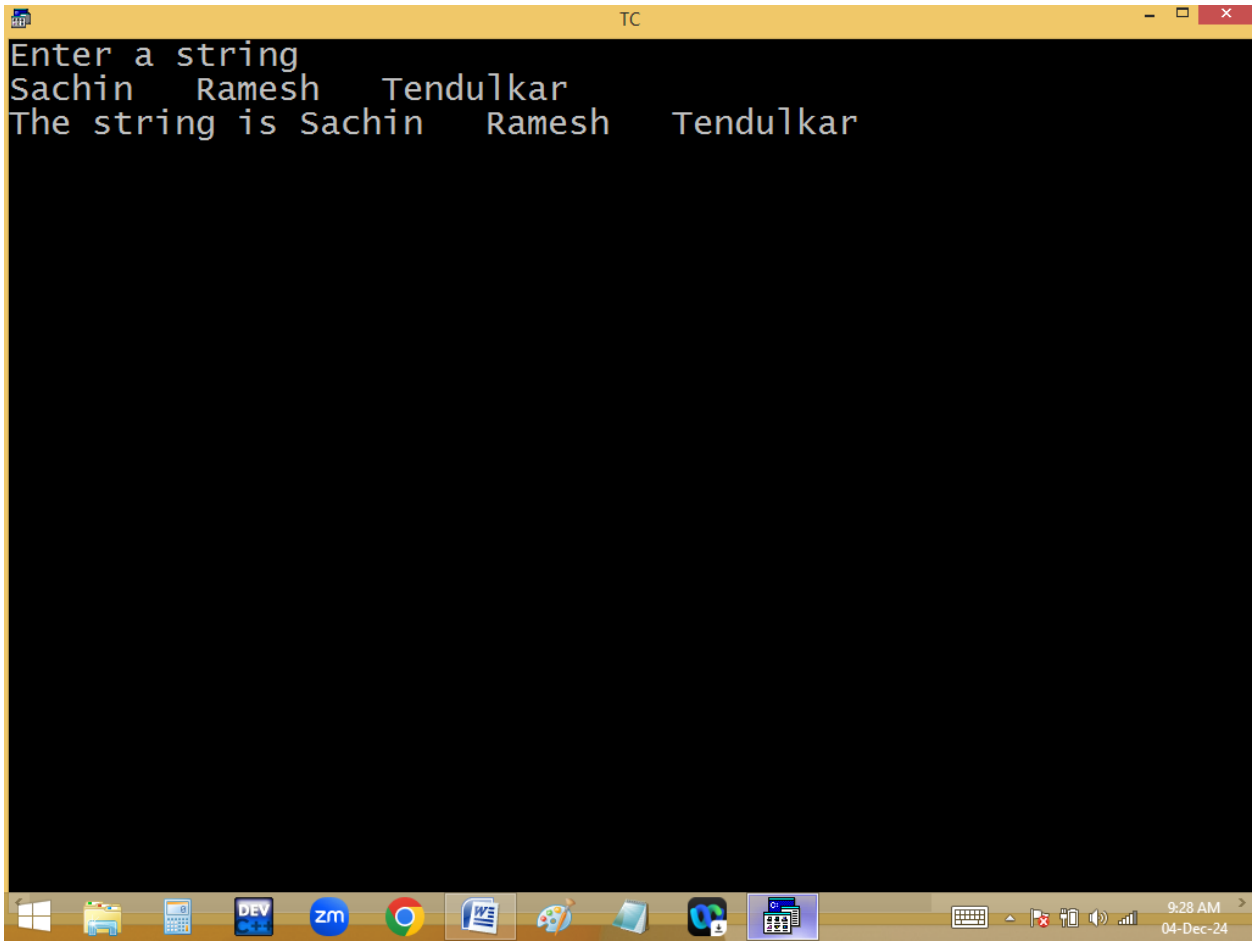
gets(): It allows to read a string with spaces until pressing enter key.


TC
File Edit Run Compile Project Options Debug
Line 7 Col 33 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); gets(s);
printf("The string is %s",s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:26 AM
04-Dec-24

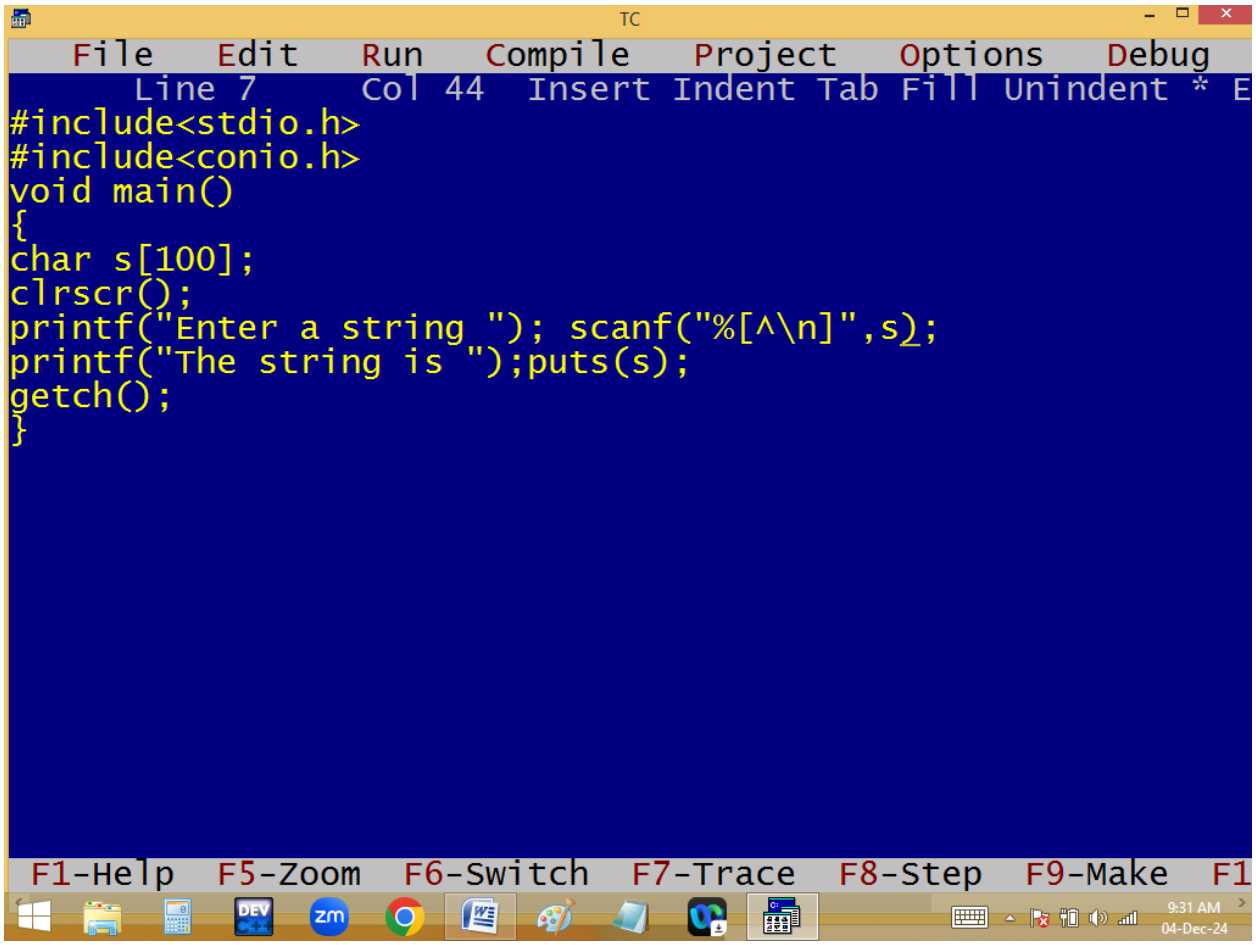

TC
Enter a string Kishore Naidu
The string is Kishore Naidu
9:26 AM
04-Dec-24

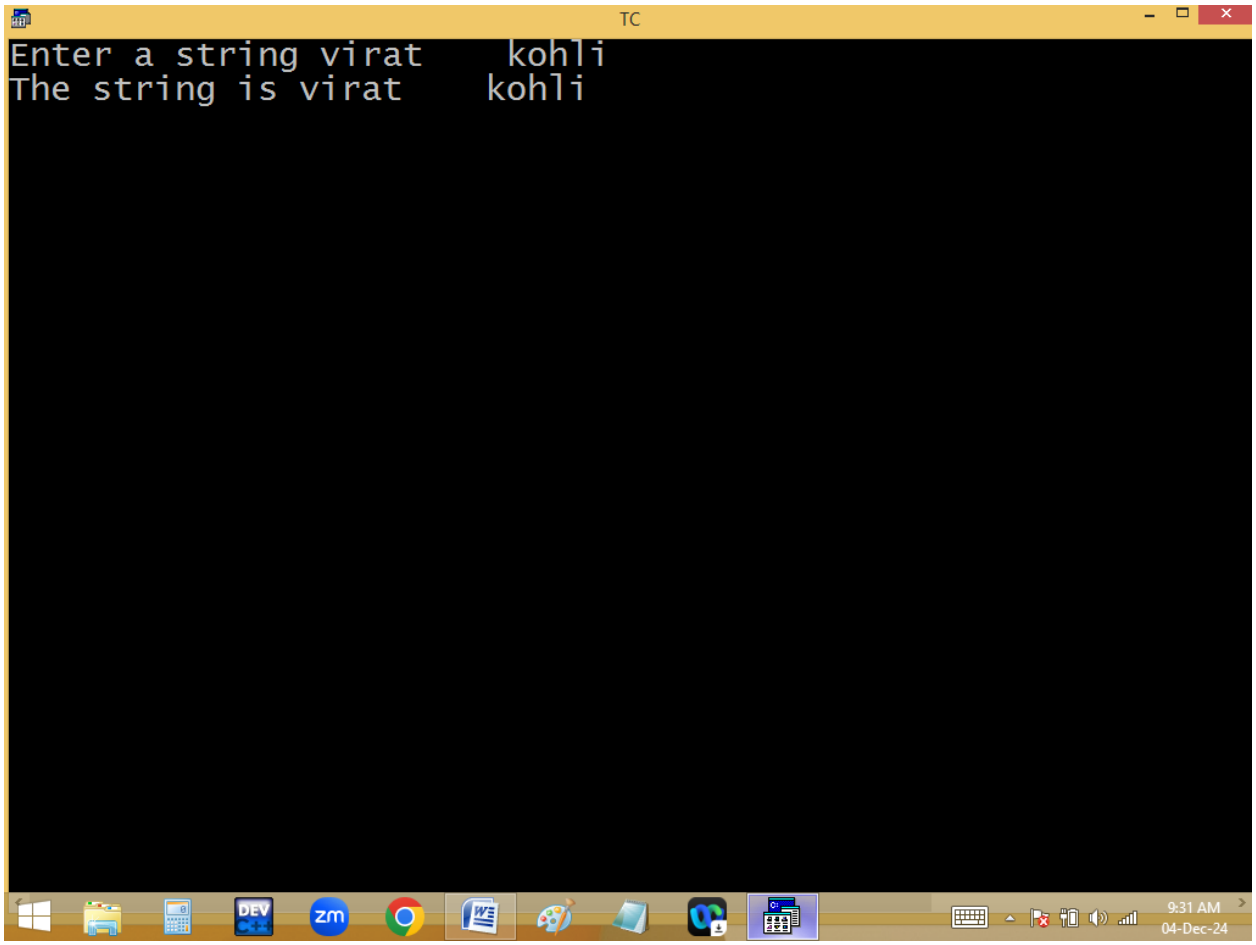

TC
Enter a string
The string is _
9:26 AM
04-Dec-24

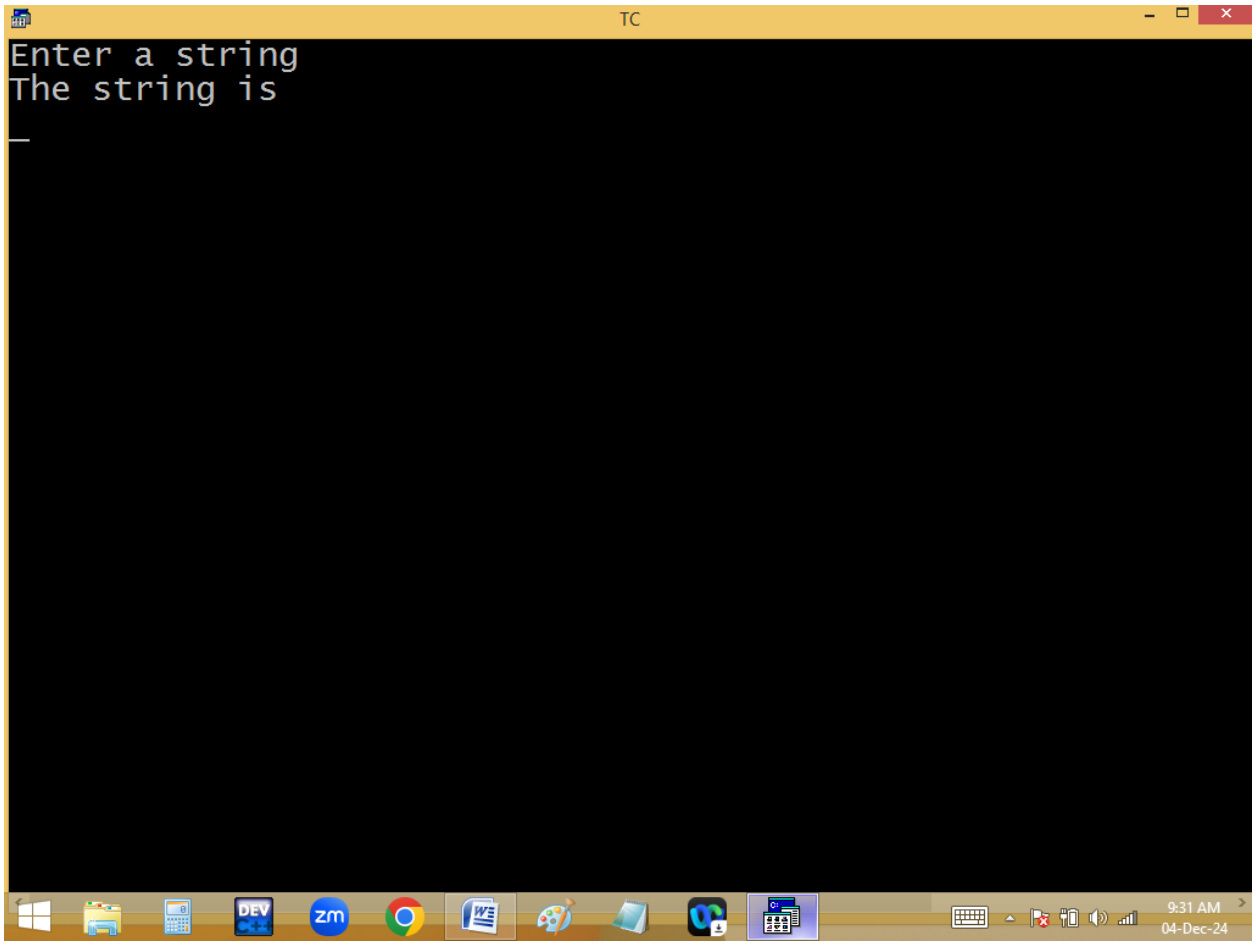

TC
File Edit Run Compile Project Options Debug
Line 7 Col 32 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
puts("Enter a string "); gets(s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:28 AM
04-Dec-24

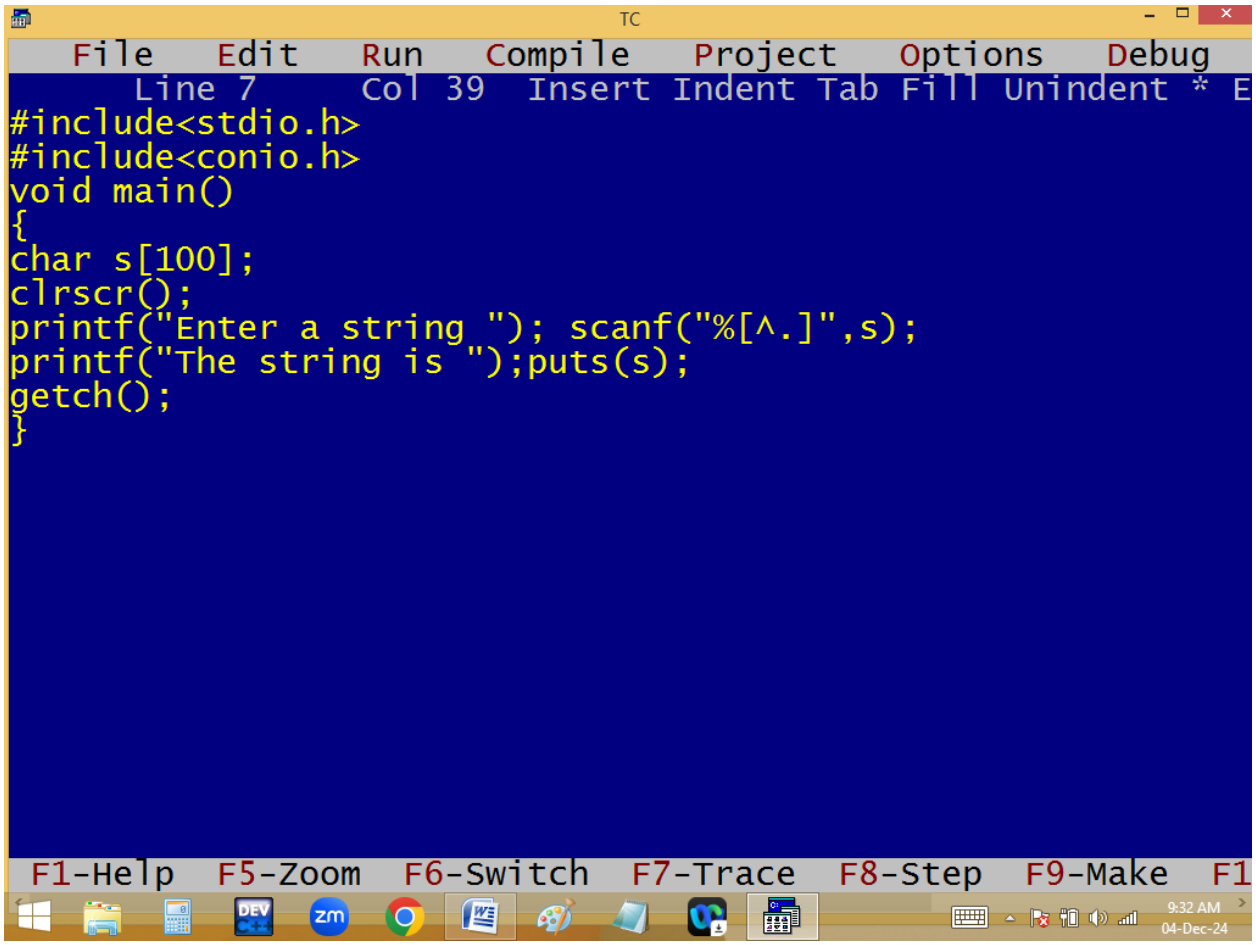


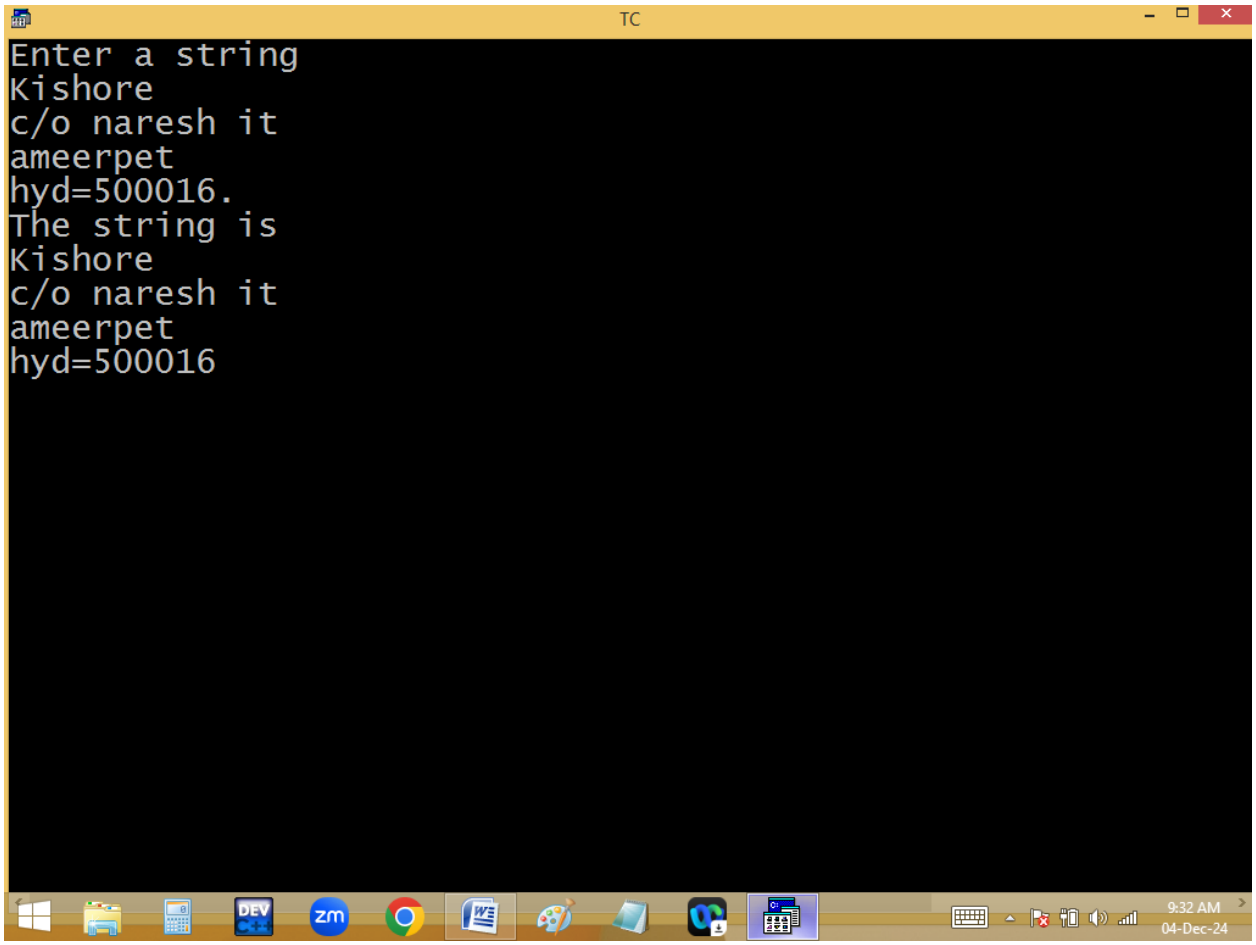
Magic / scan set characters:

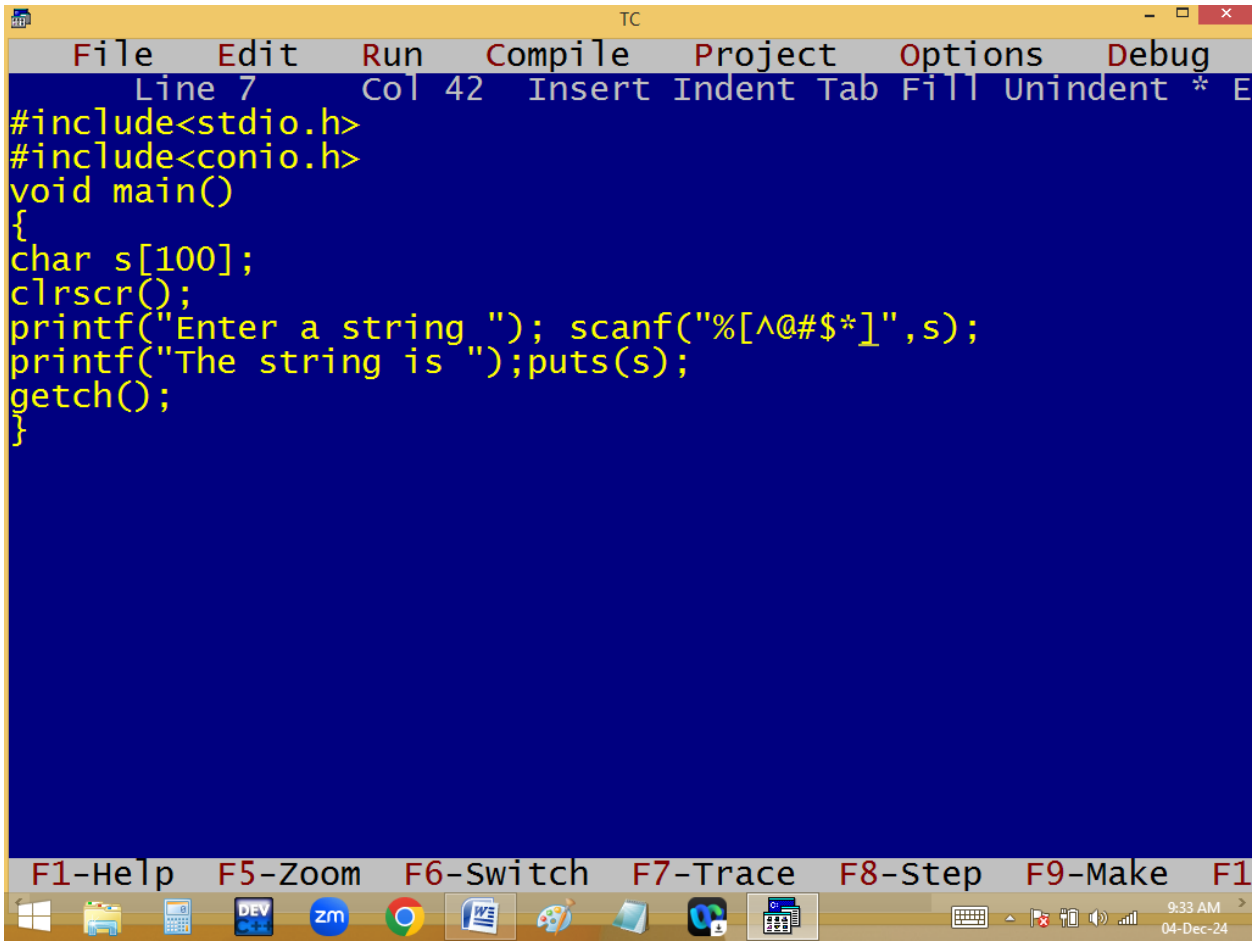

TC
File Edit Run Compile Project Options Debug
Line 7 Col 44 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^\n]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:31 AM
04-Dec-24

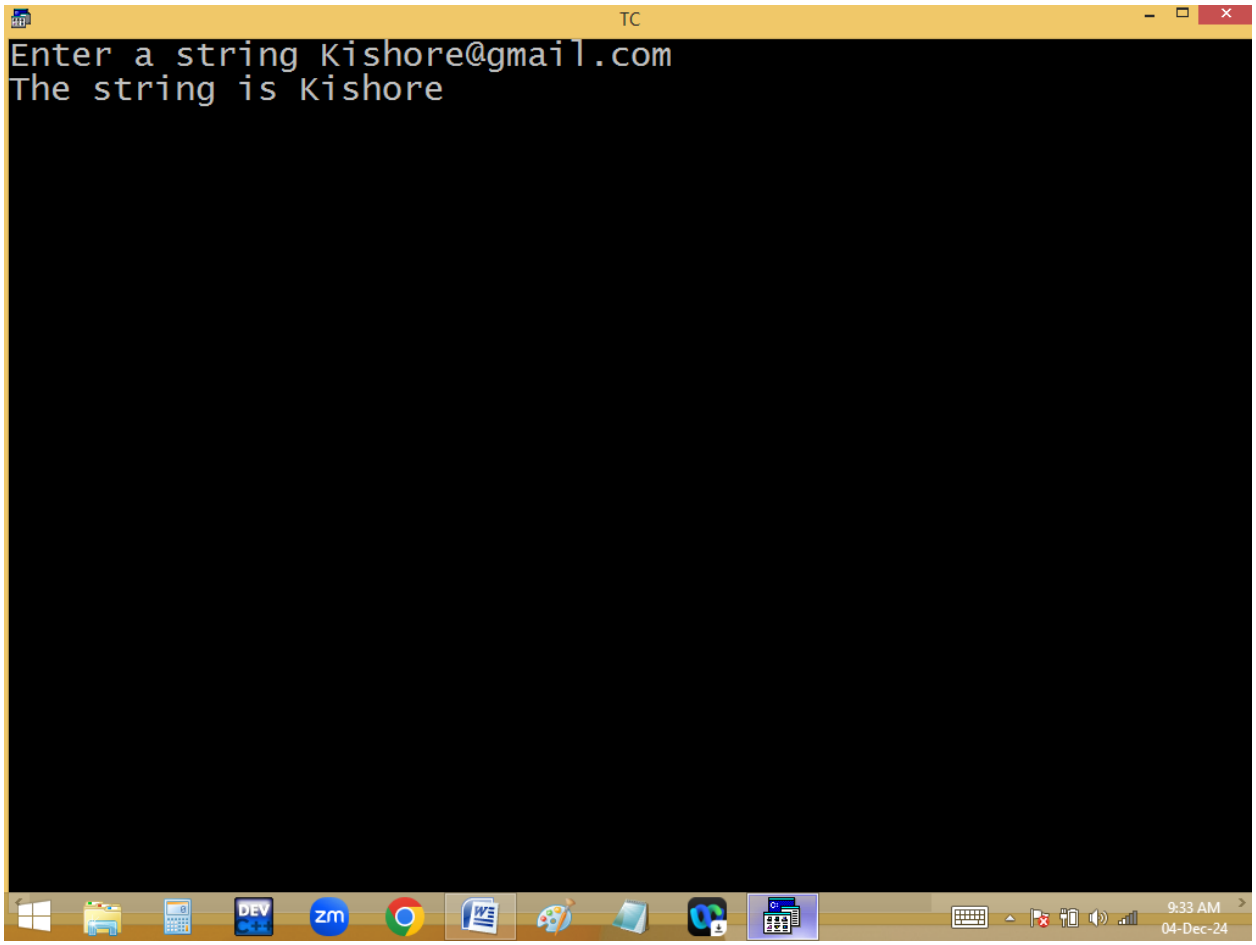

TC
Enter a string virat kohli
The string is virat kohli
9:31 AM
04-Dec-24

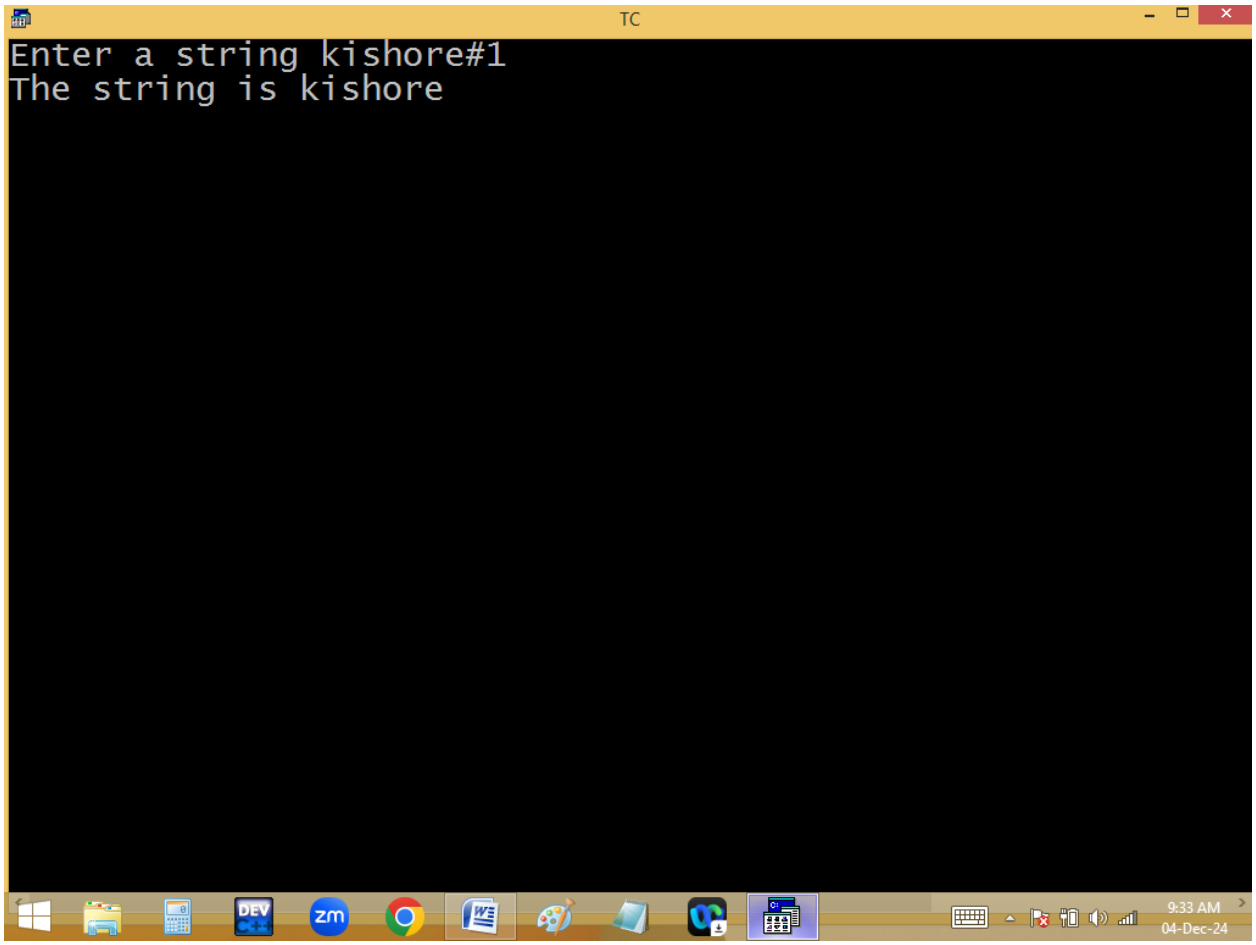

TC
Enter a string
The string is
9:31 AM
04-Dec-24

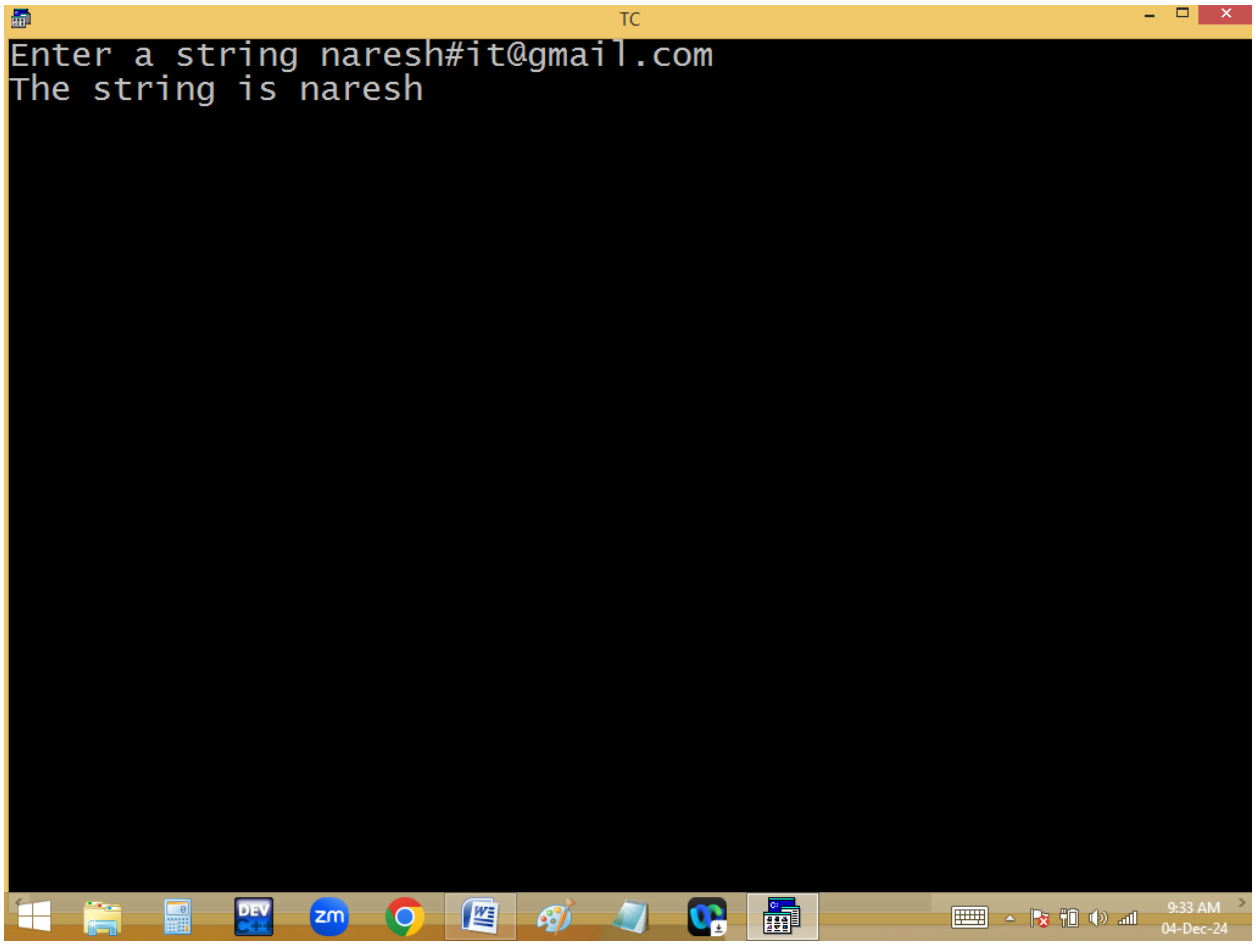

TC
File Edit Run Compile Project Options Debug
Line 7 Col 39 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^.]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:32 AM
04-Dec-24

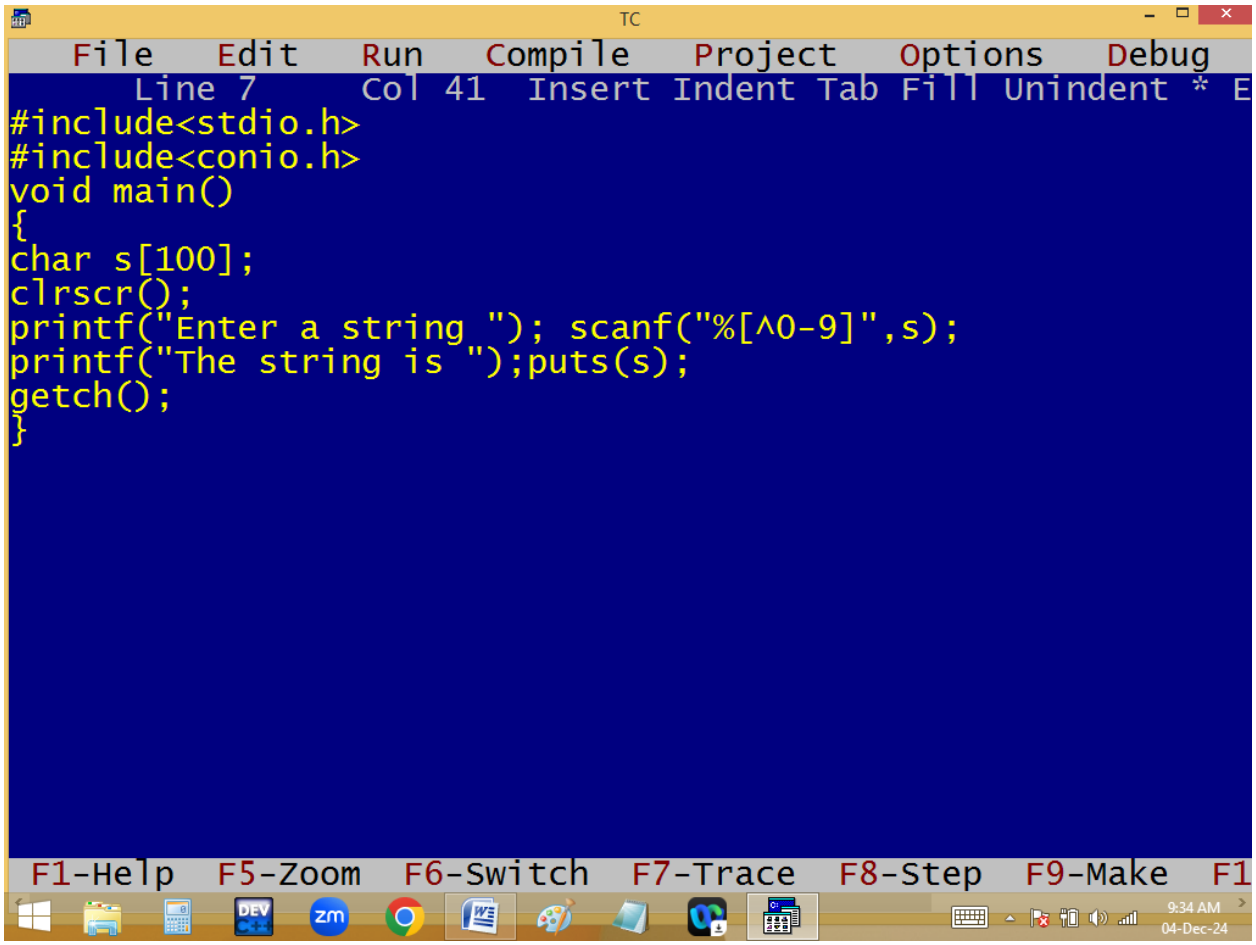

TC
Enter a string
Kishore
c/o naresh it
ameerpet
hyd=500016.
The string is
Kishore
c/o naresh it
ameerpet
hyd=500016
9:32 AM
04-Dec-24

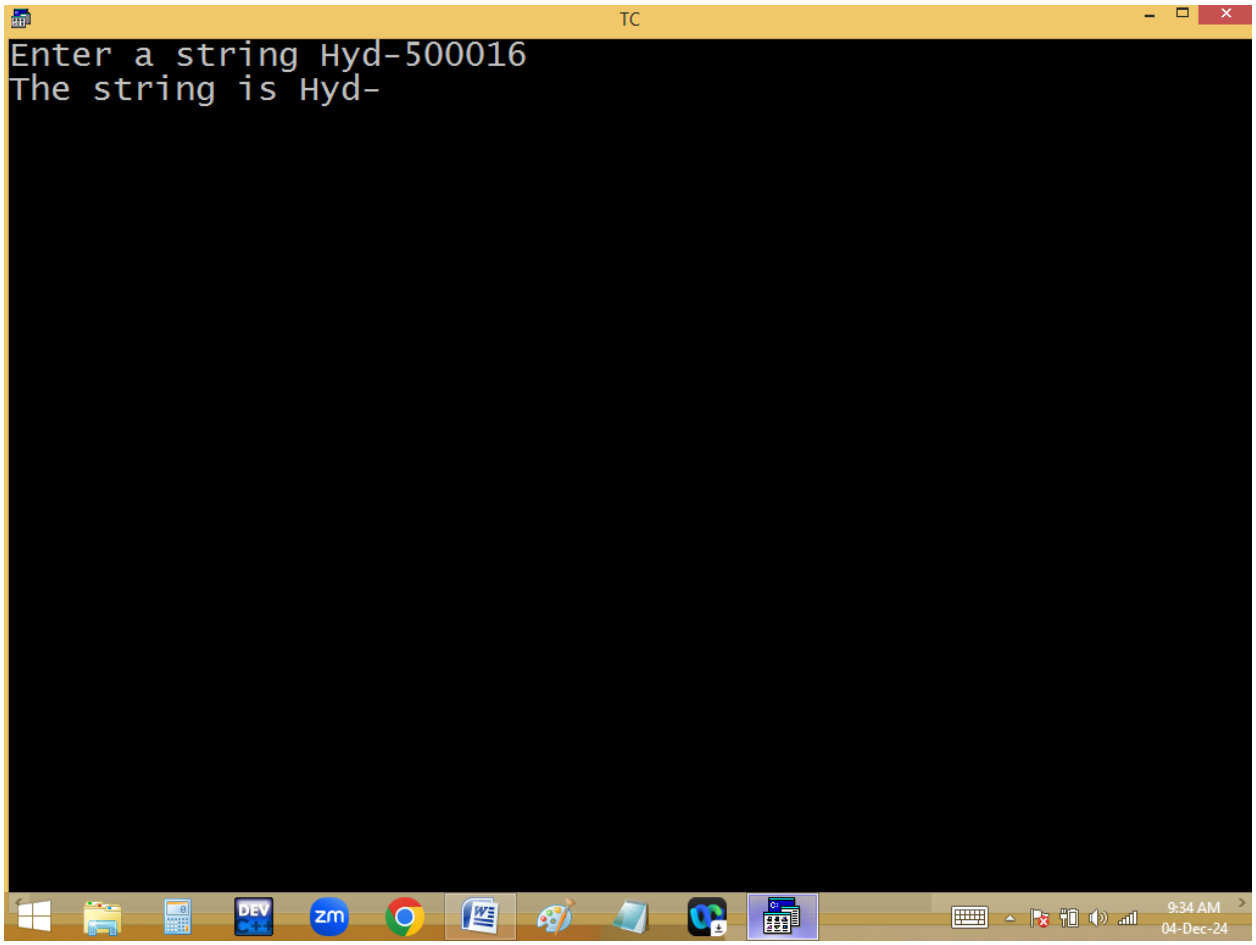

TC
File Edit Run Compile Project Options Debug
Line 7 Col 42 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^@#$*]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:33 AM
04-Dec-24

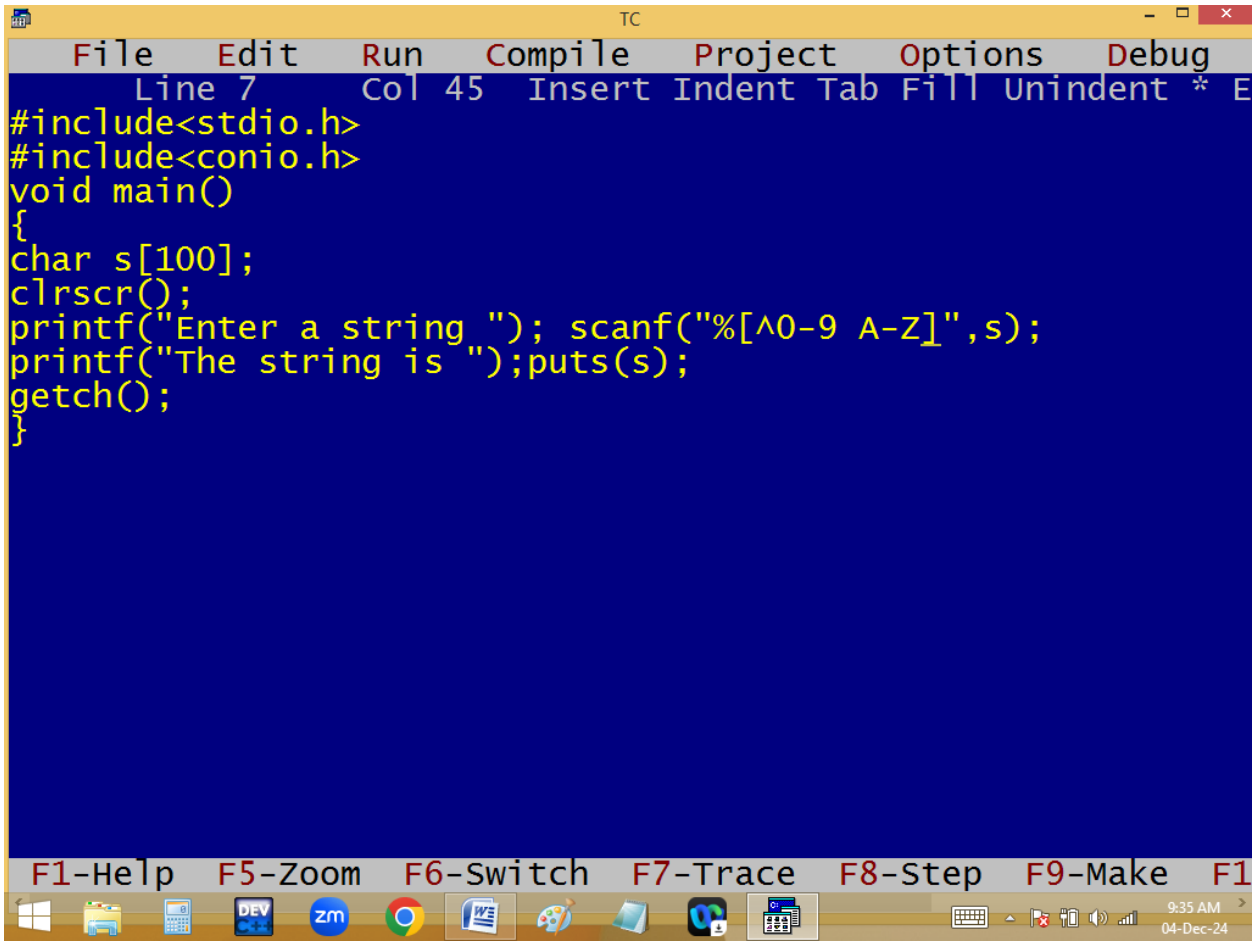

TC
Enter a string Kishore@gmail.com
The string is Kishore
9:33 AM
04-Dec-24

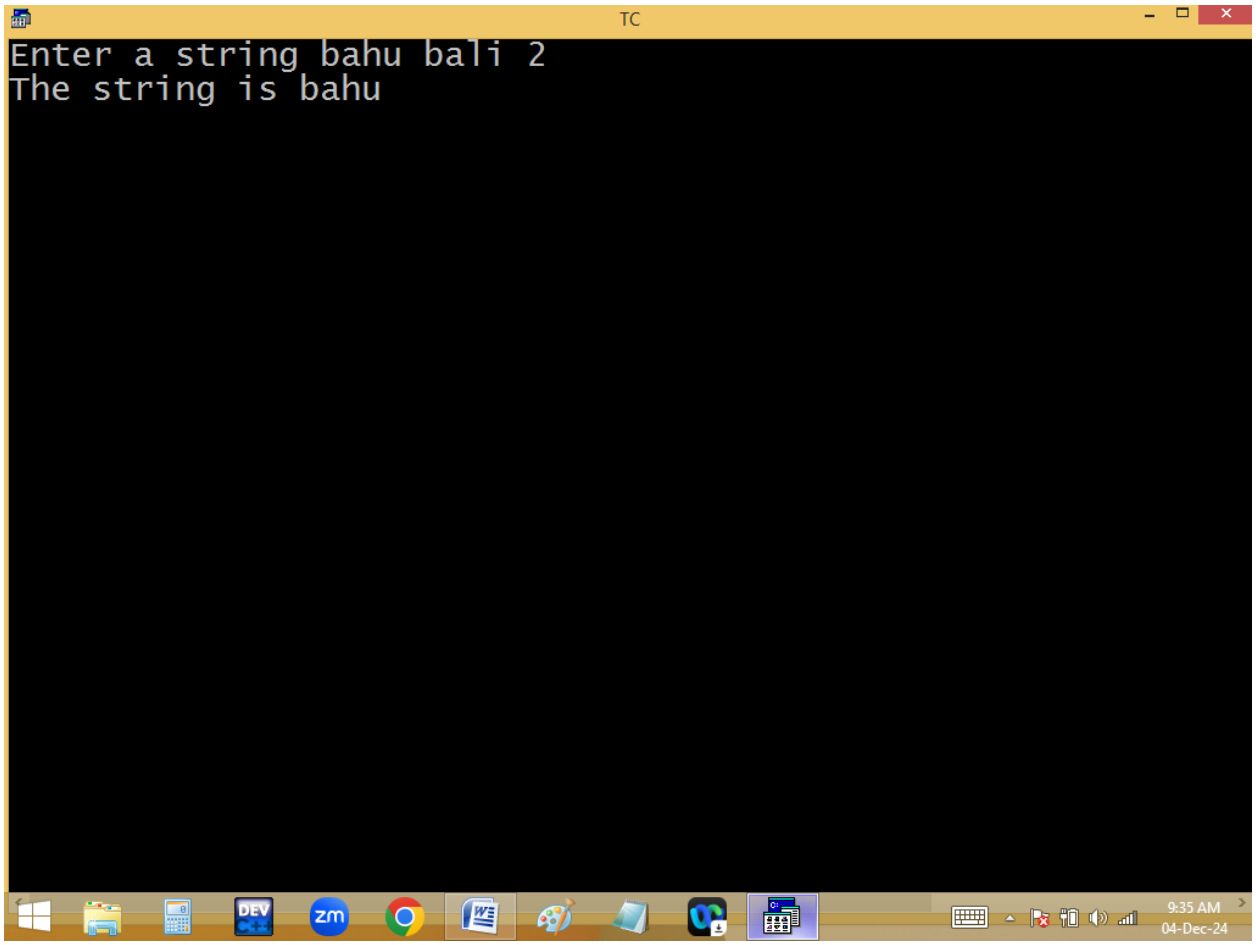

TC
Enter a string kishore#1
The string is kishore
9:33 AM
04-Dec-24

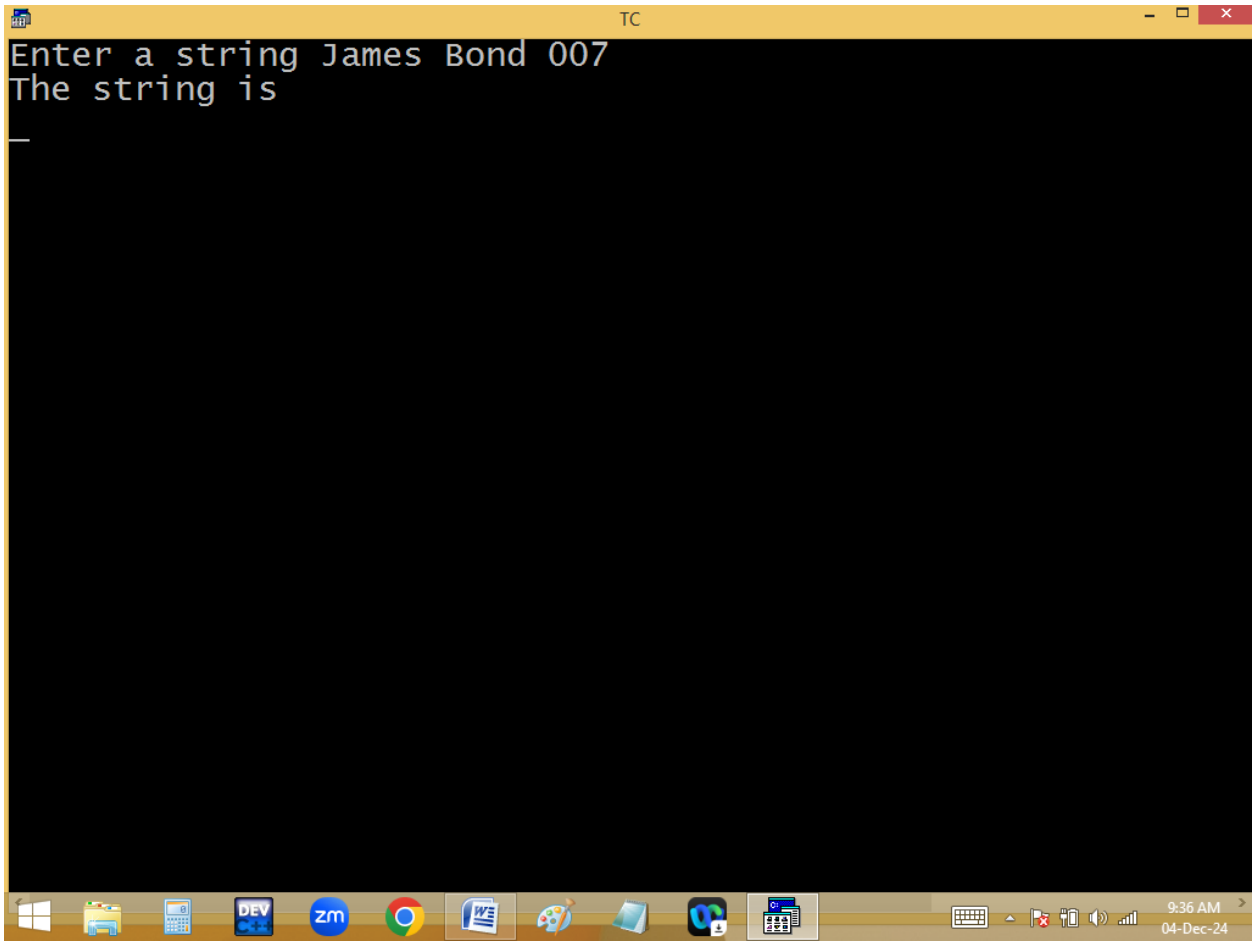

TC
Enter a string naresh#it@gmail.com
The string is naresh
9:33 AM
04-Dec-24

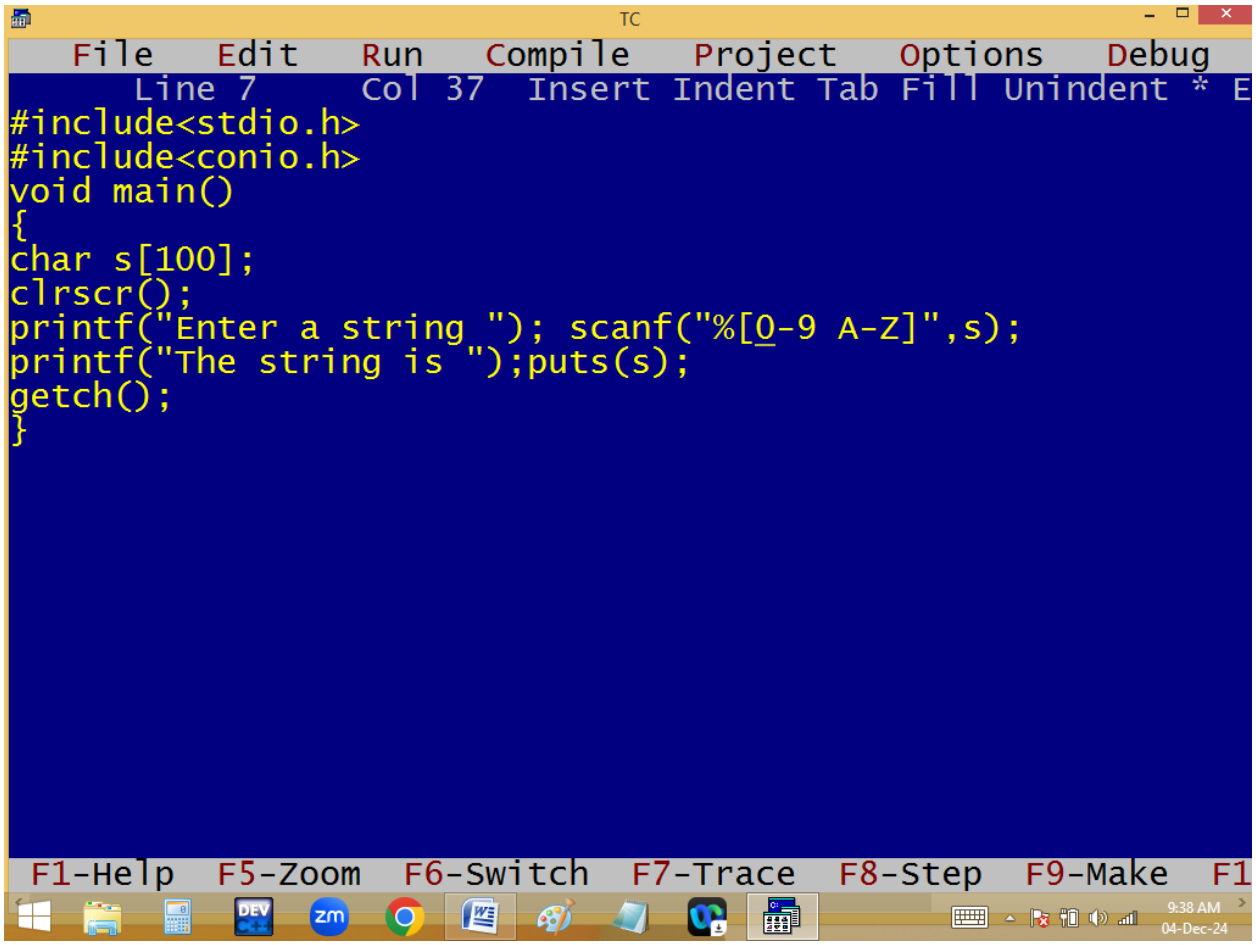

TC
File Edit Run Compile Project Options Debug
Line 7 Col 41 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^0-9]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:34 AM
04-Dec-24

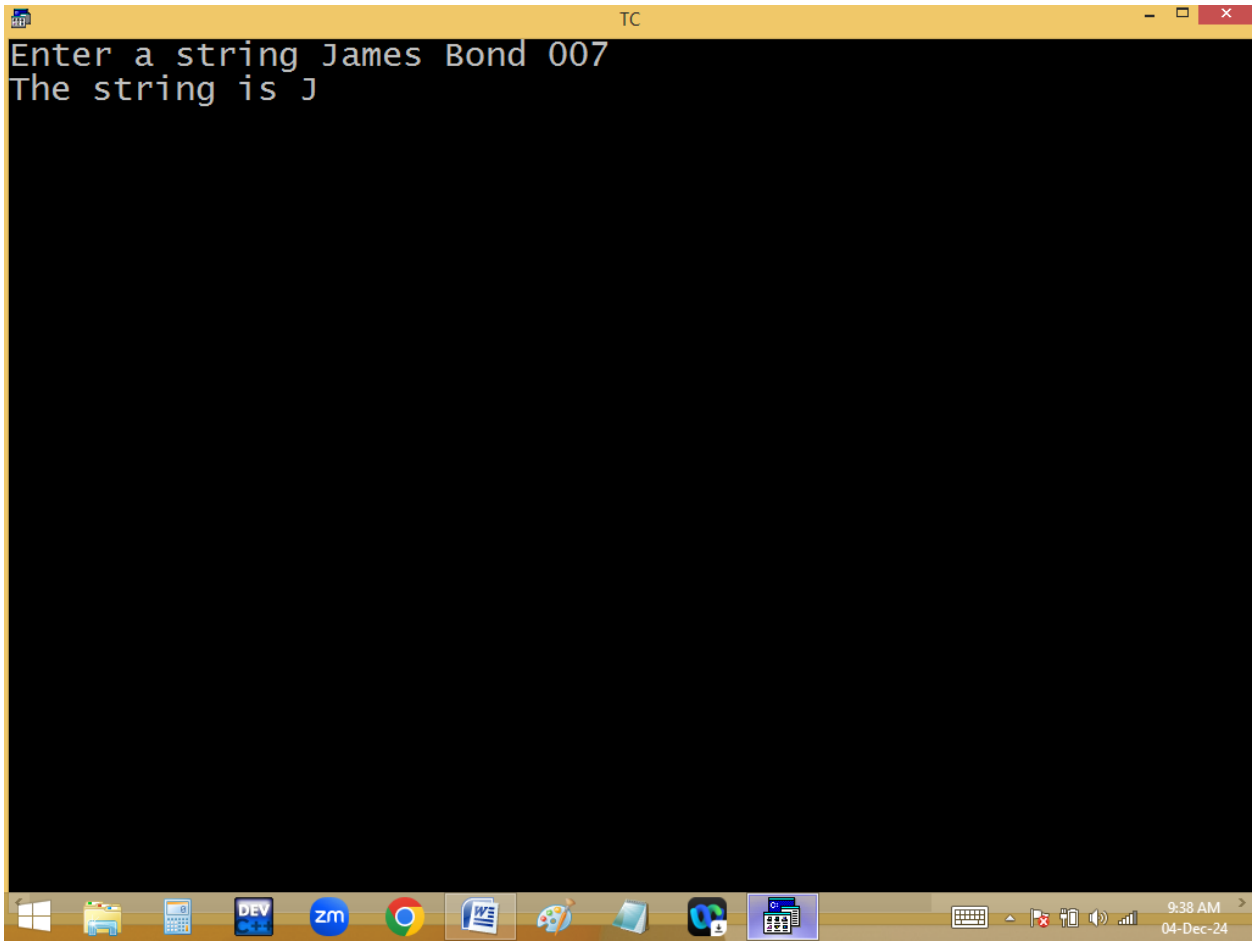

TC
Enter a string Hyd-500016
The string is Hyd-
9:34 AM
04-Dec-24

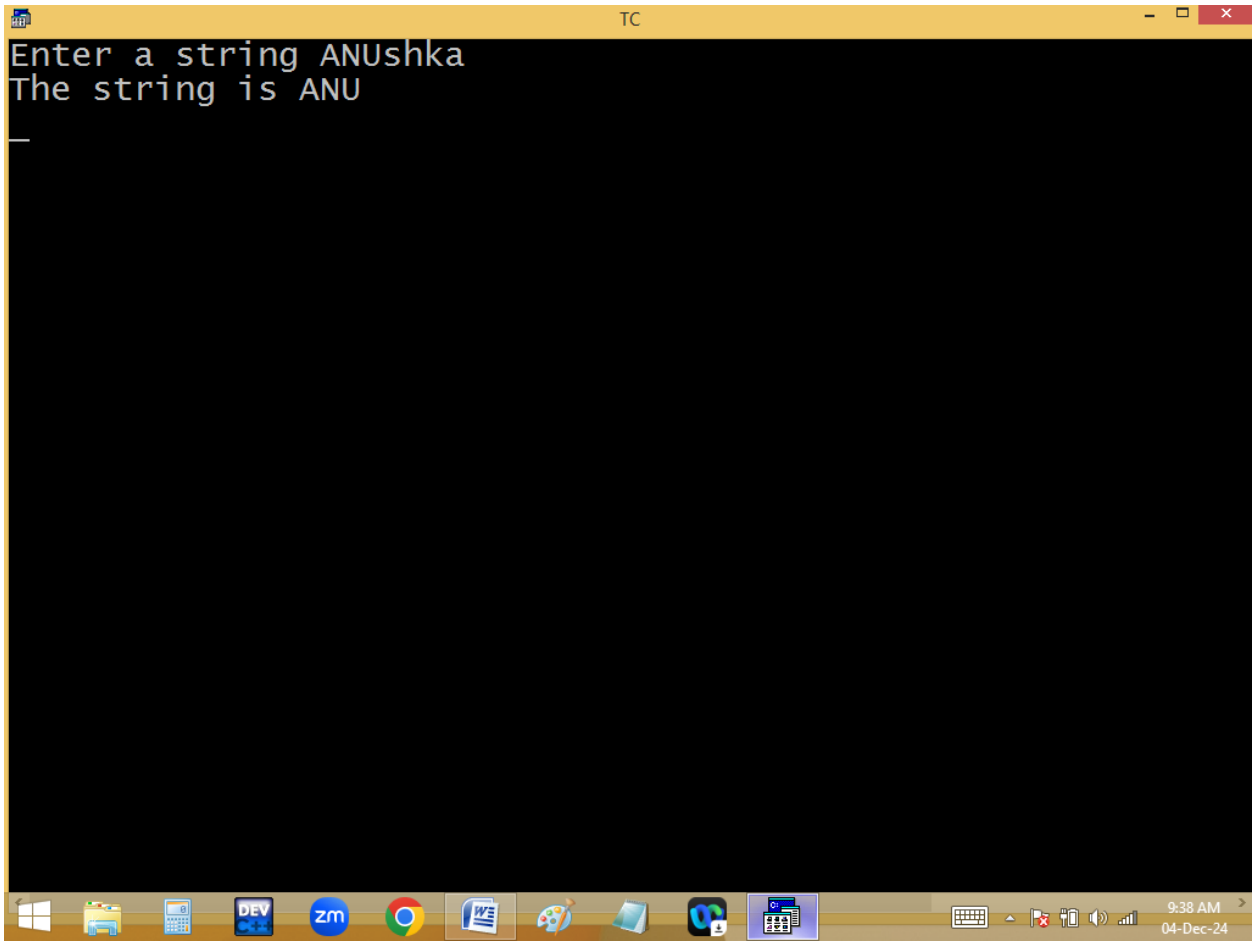

TC
File Edit Run Compile Project Options Debug
Line 7 Col 45 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^0-9 A-Z]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:35 AM
04-Dec-24

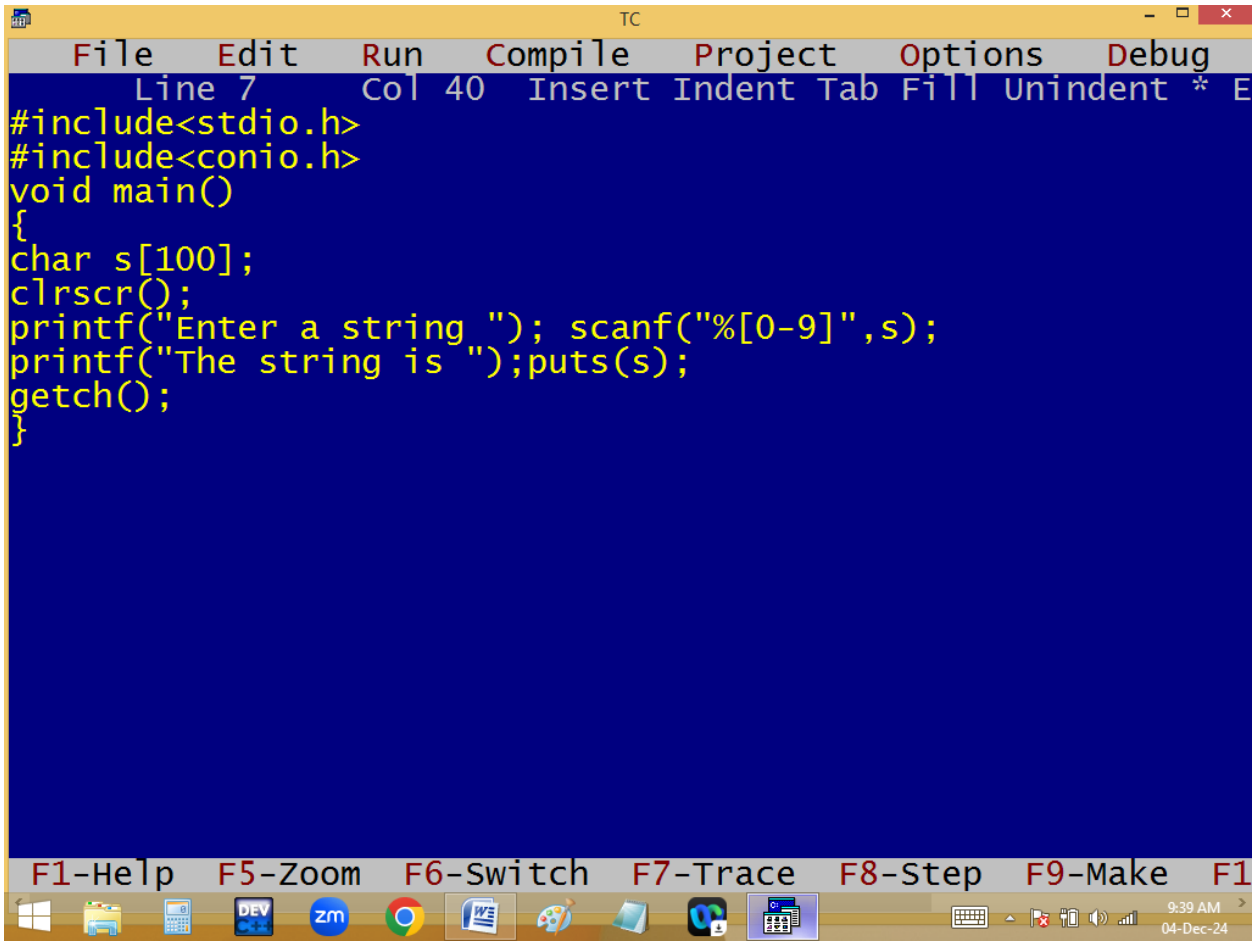

TC
Enter a string bahu bali 2
The string is bahu
9:35 AM
04-Dec-24

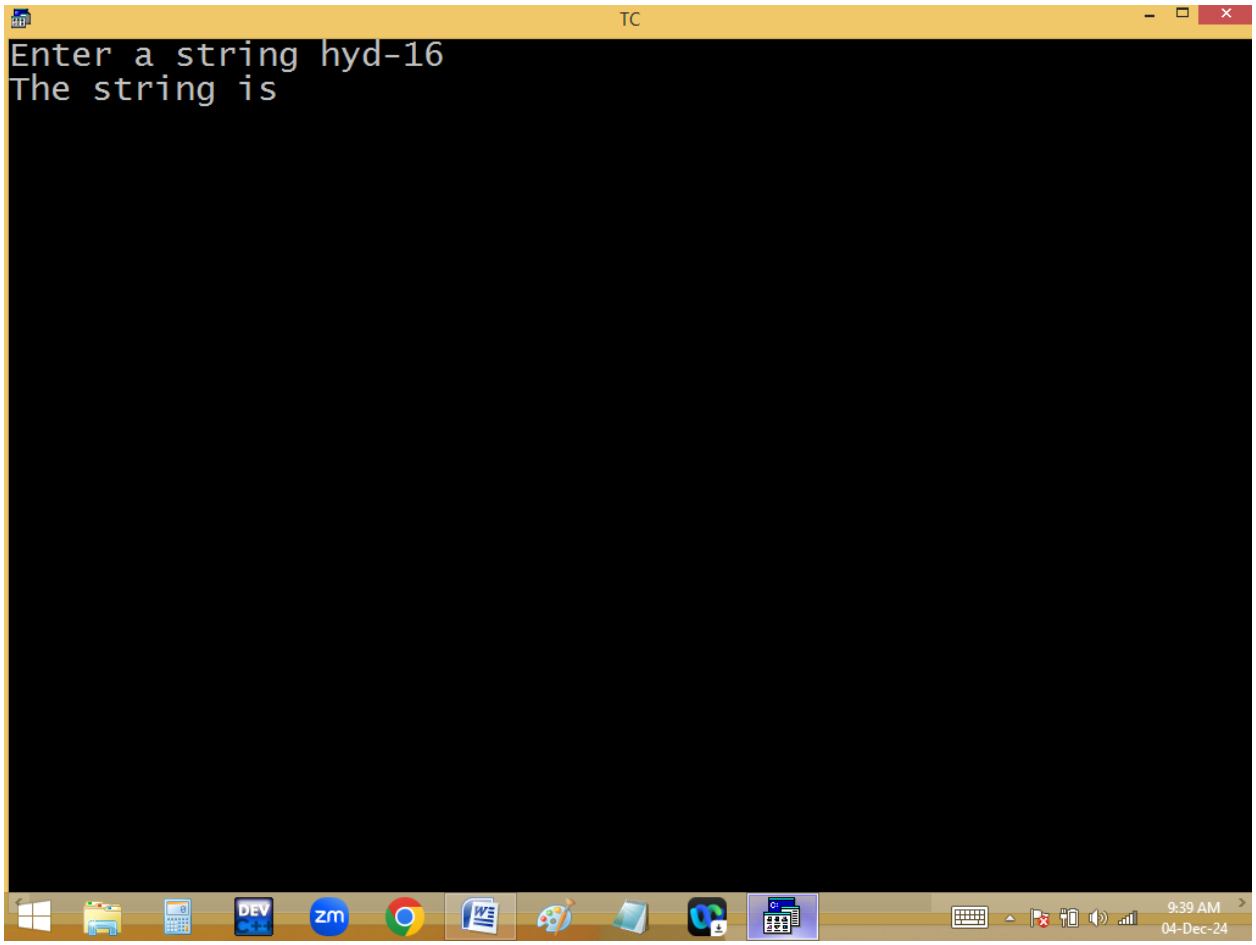

TC
Enter a string James Bond 007
The string is
9:36 AM
04-Dec-24

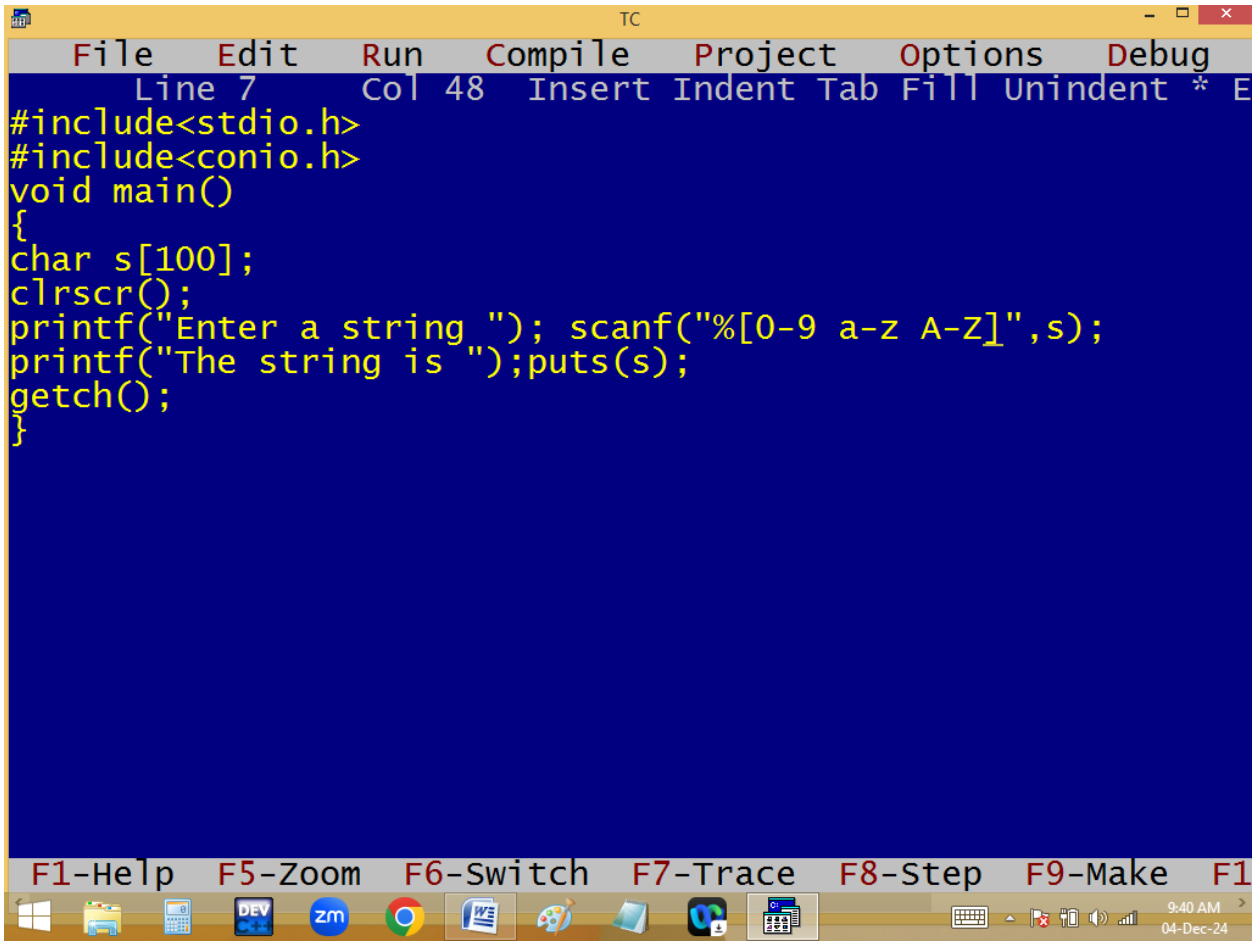

TC
File Edit Run Compile Project Options Debug
Line 7 Col 37 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[0-9 A-Z]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:38 AM
04-Dec-24

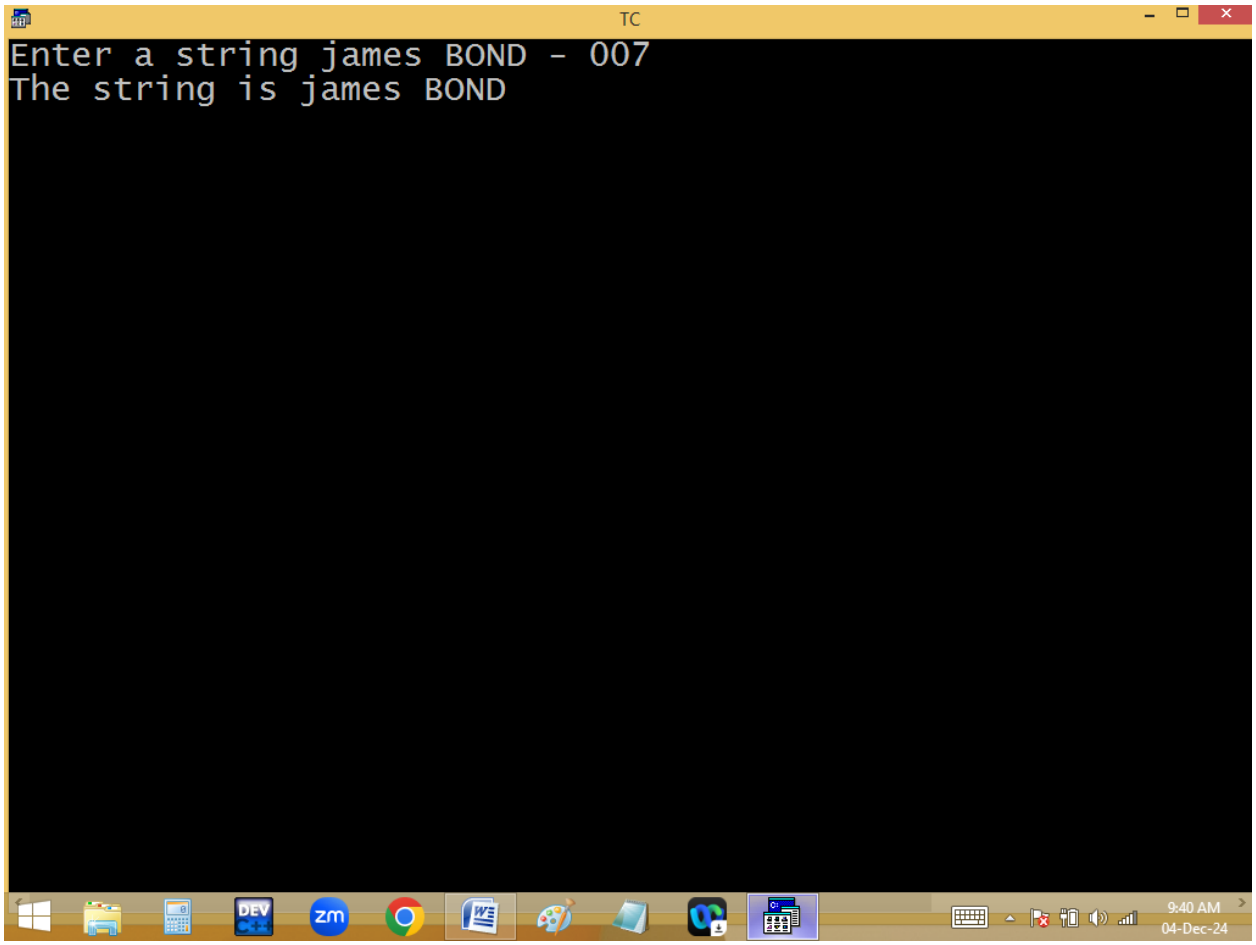

TC
Enter a string James Bond 007
The string is J
9:38 AM
04-Dec-24


TC
Enter a string ANUshka
The string is ANU
9:38 AM
04-Dec-24

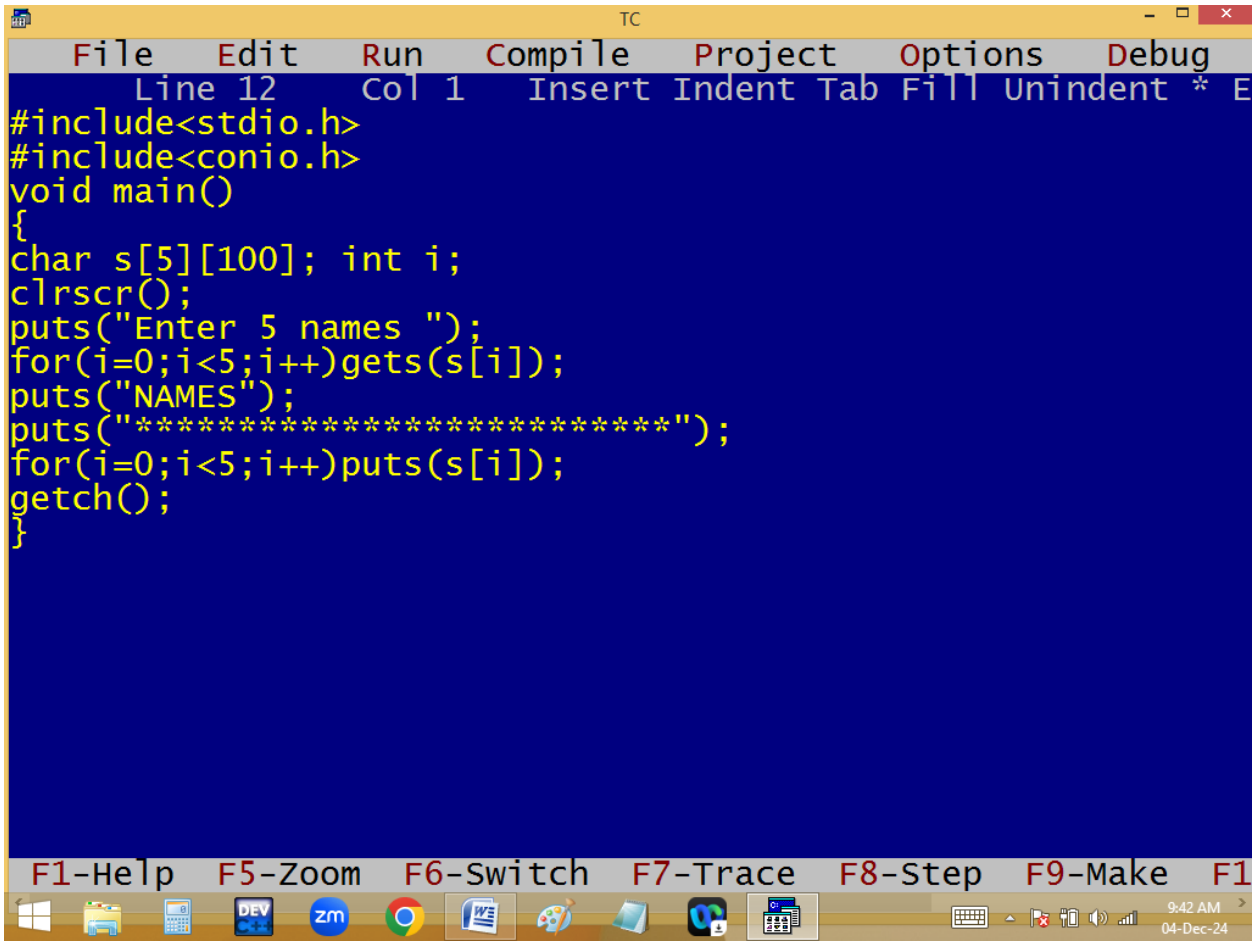

TC
File Edit Run Compile Project Options Debug
Line 7 Col 40 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[0-9]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:39 AM
04-Dec-24

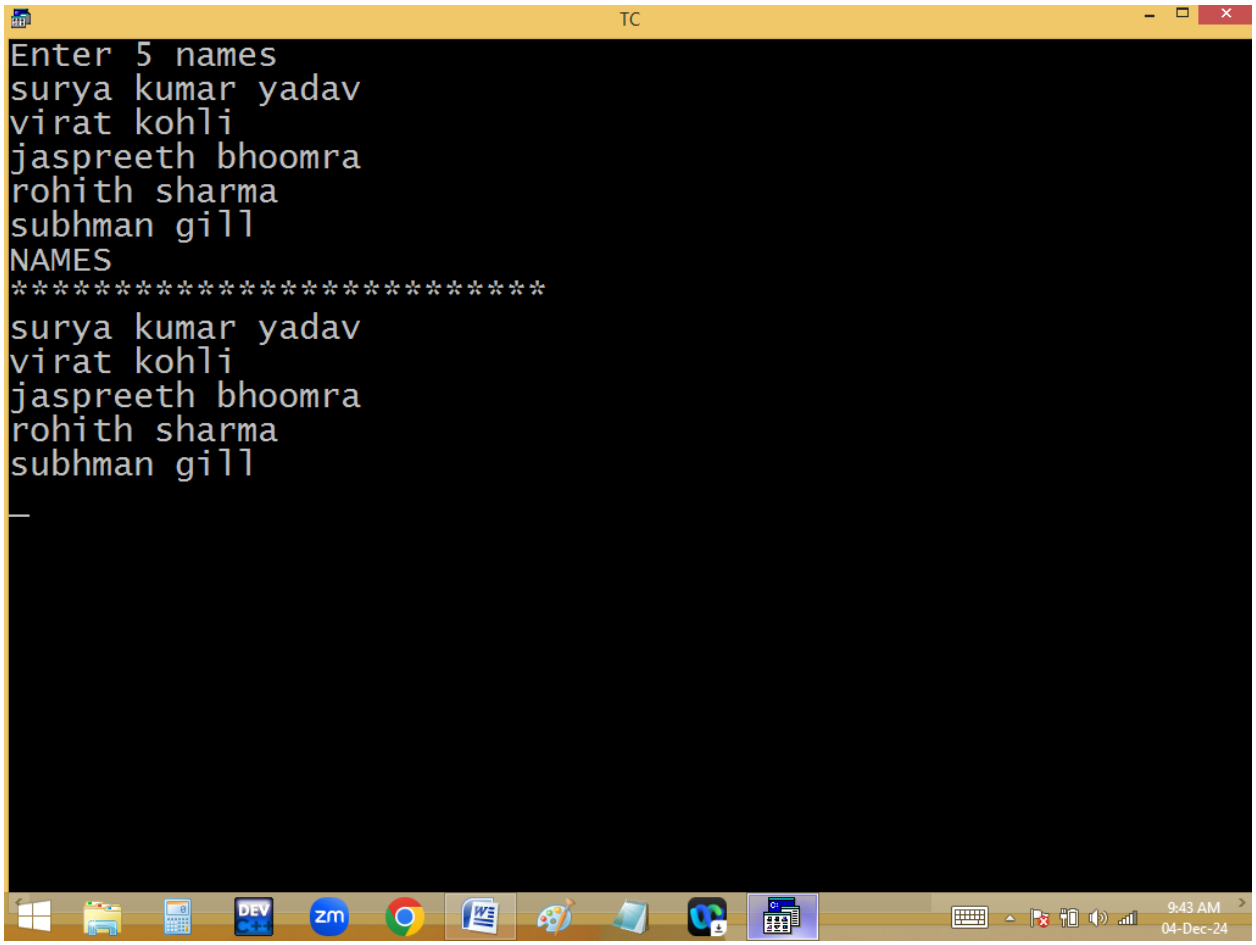

TC
Enter a string hyd-16
The string is
9:39 AM
04-Dec-24


TC
File Edit Run Compile Project Options Debug
Line 7 Col 48 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[0-9 a-z A-Z]",s);
printf("The string is ");puts(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:40 AM
04-Dec-24

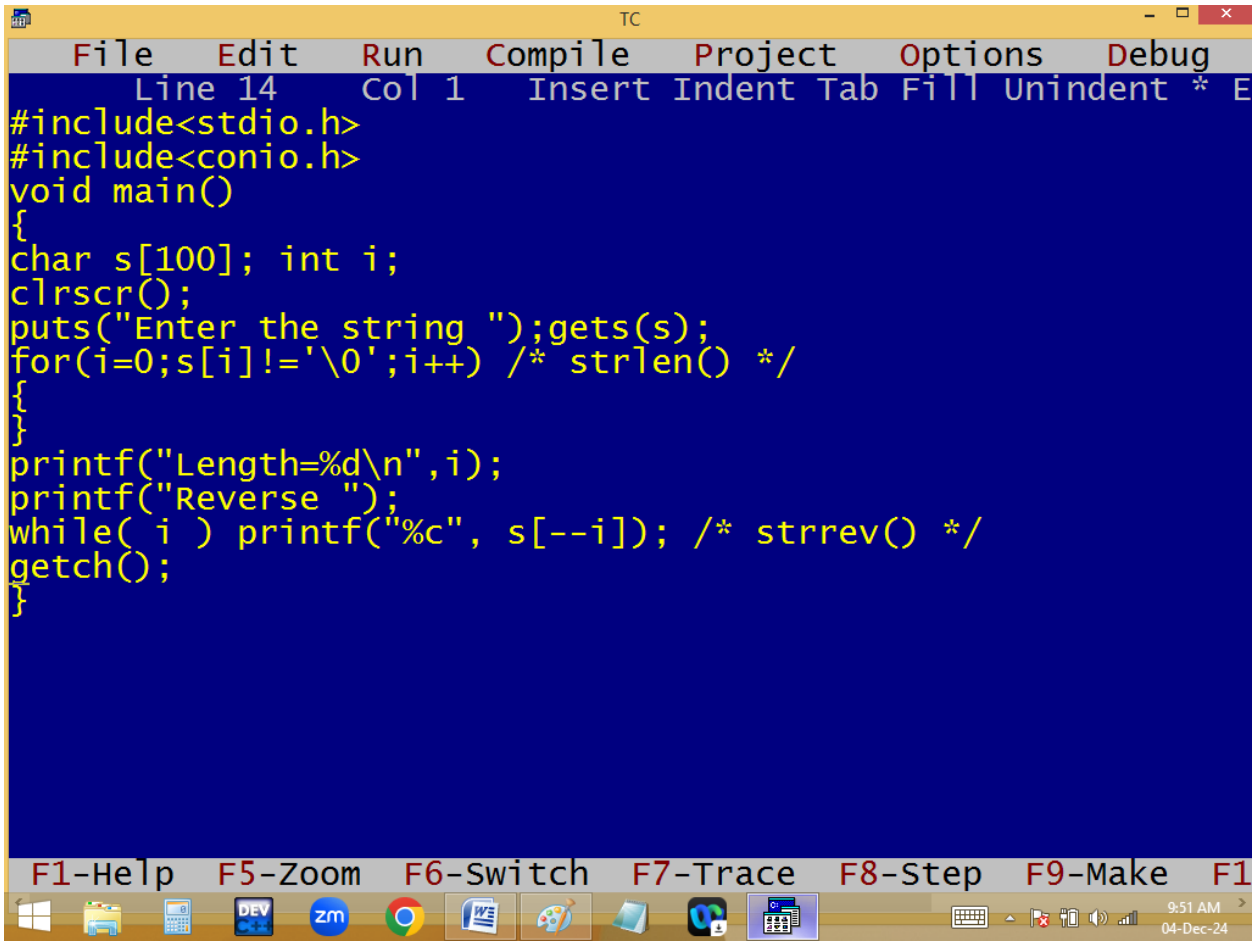


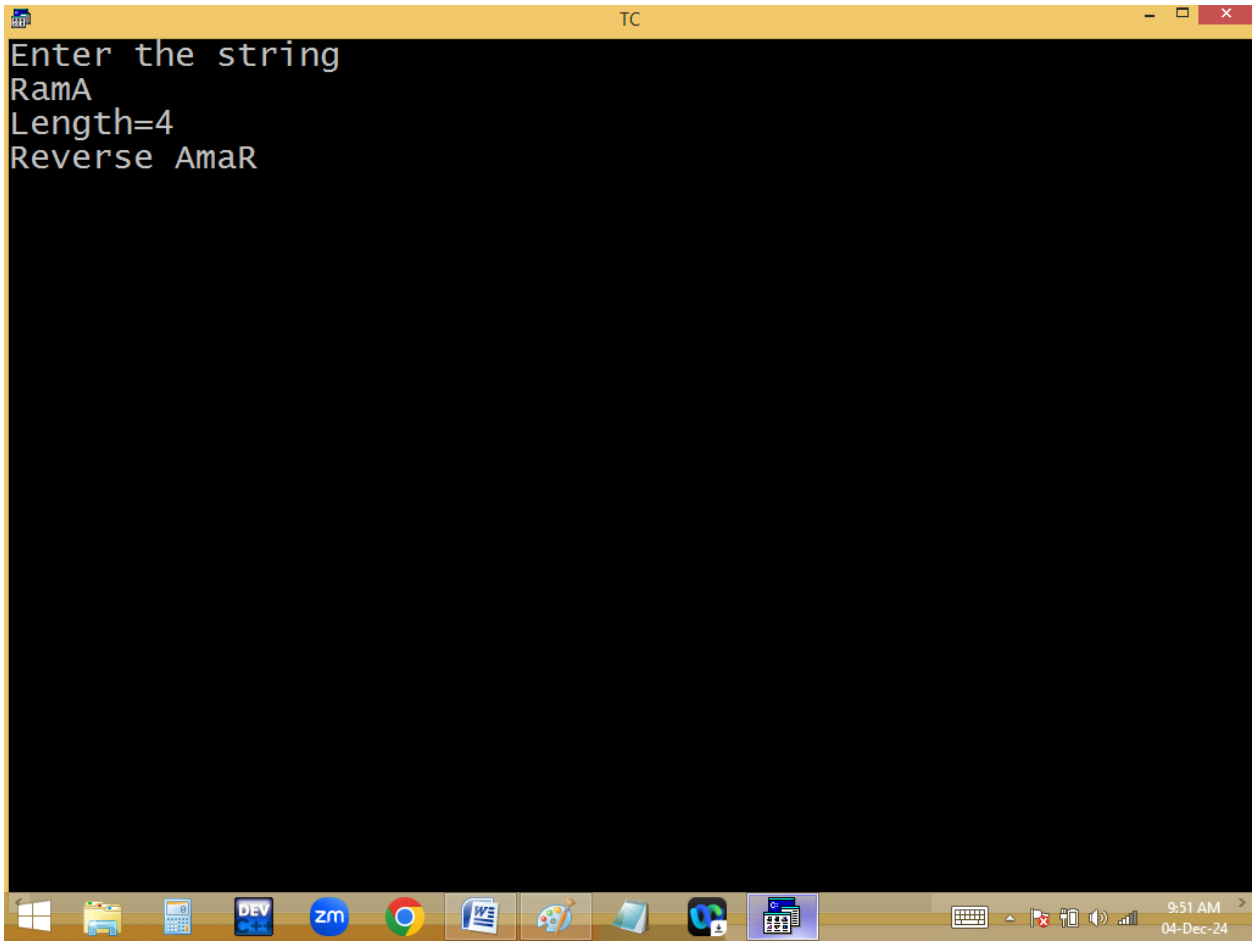
Reading and printing multiple strings:

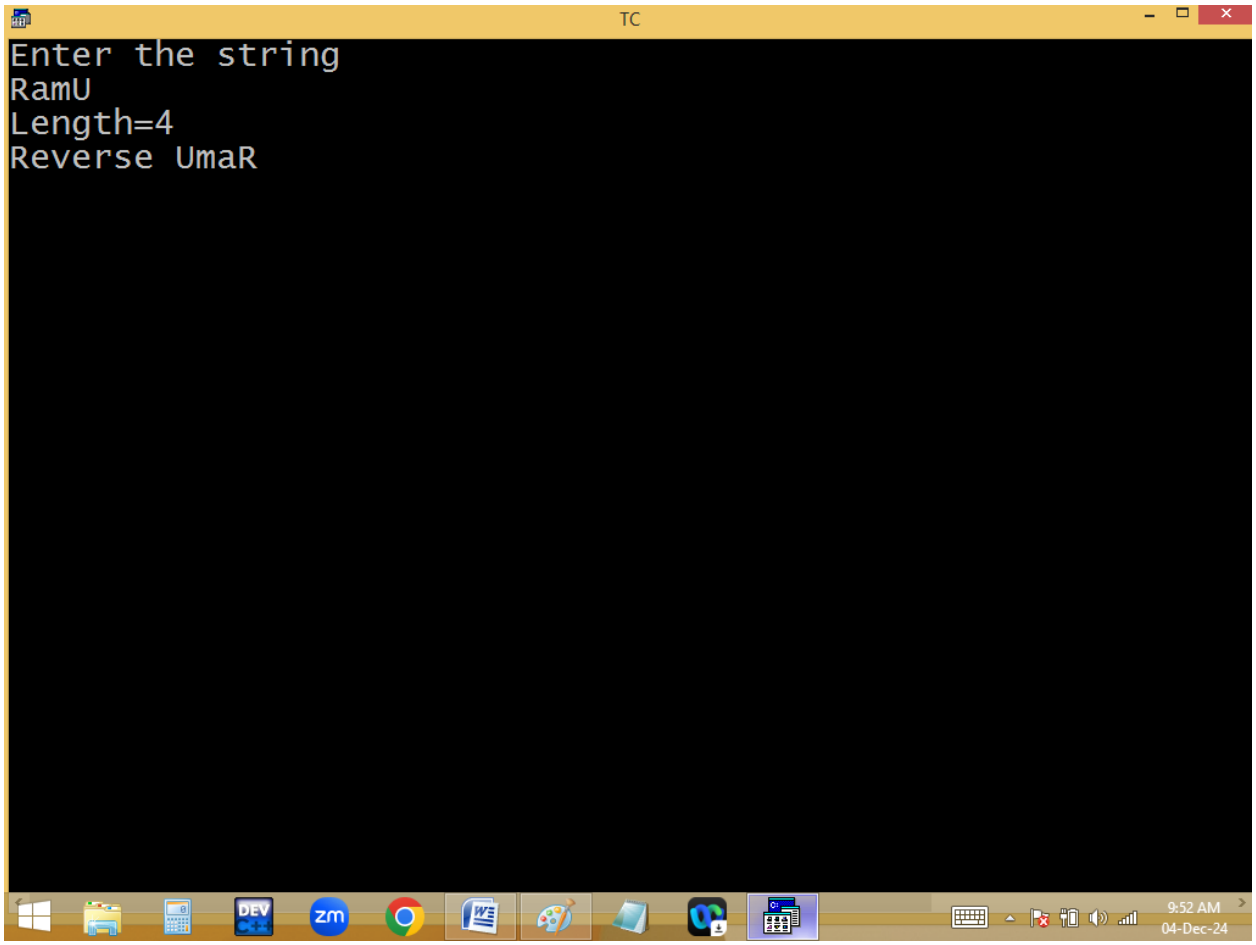

TC
File Edit Run Compile Project Options Debug
Line 12 Col 1 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[5][100]; int i;
clrscr();
puts("Enter 5 names ");
for(i=0;i<5;i++)gets(s[i]);
puts("NAMES");
puts("**************************");
for(i=0;i<5;i++)puts(s[i]);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:42 AM
04-Dec-24

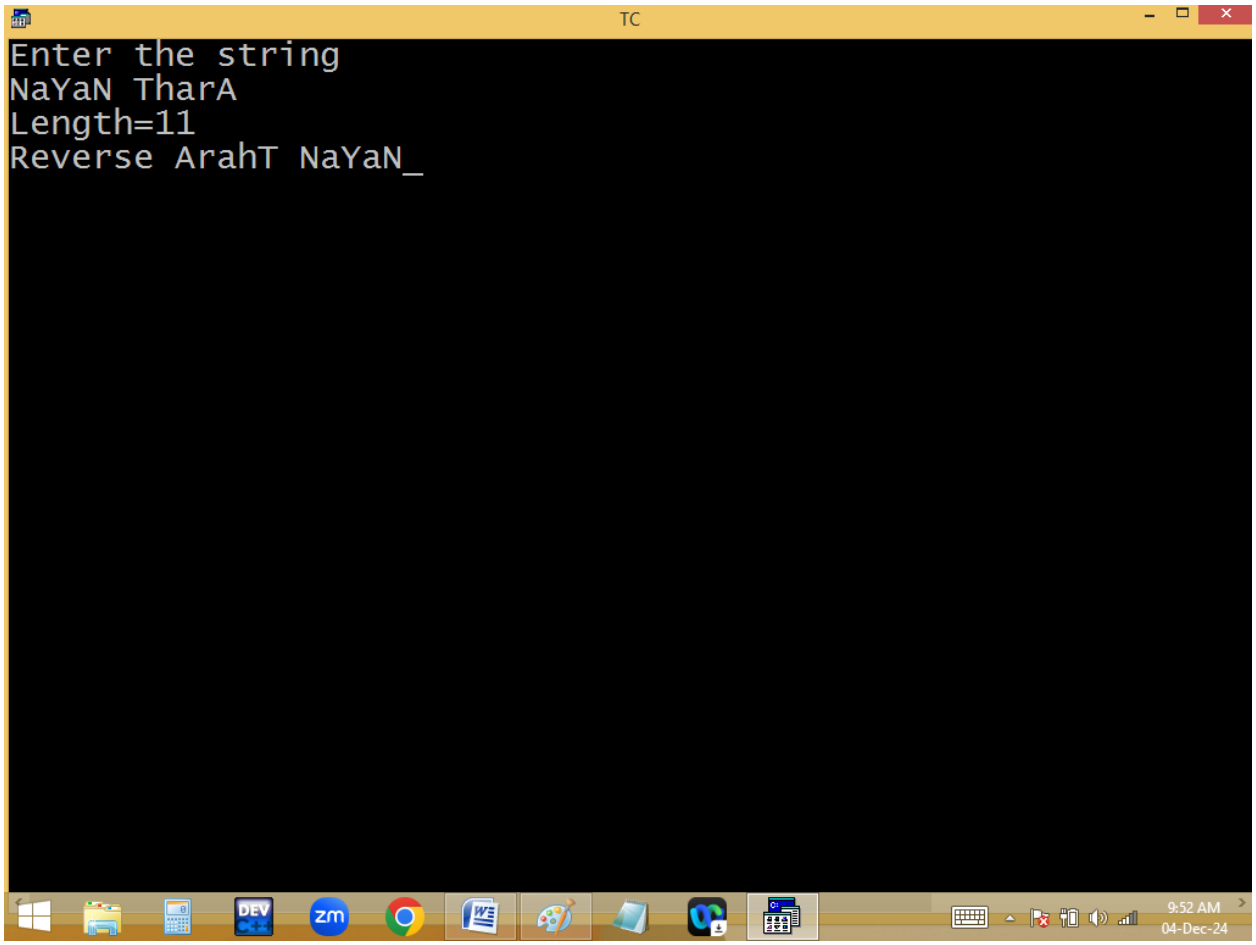


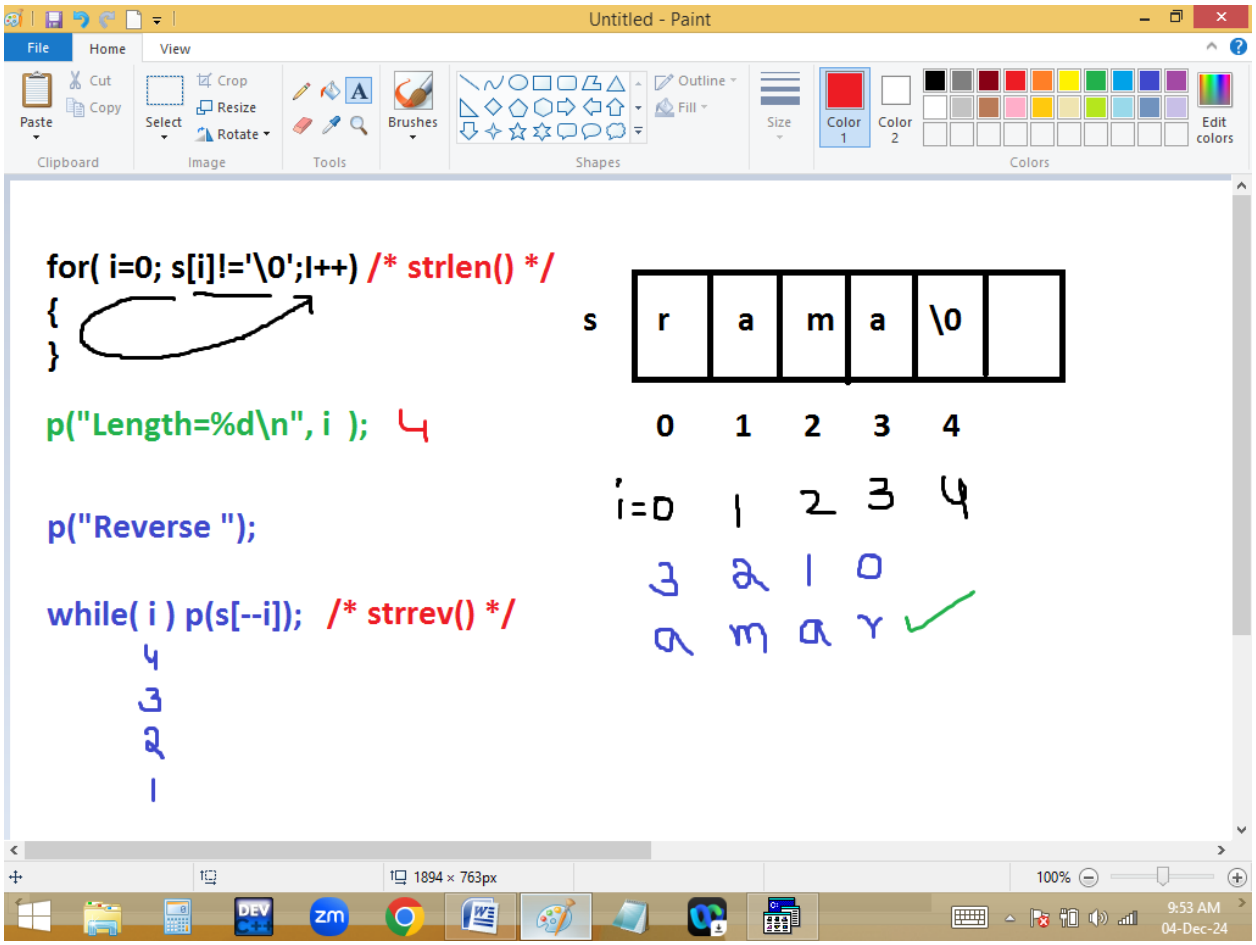
Finding string length and reverse string using user defined program:

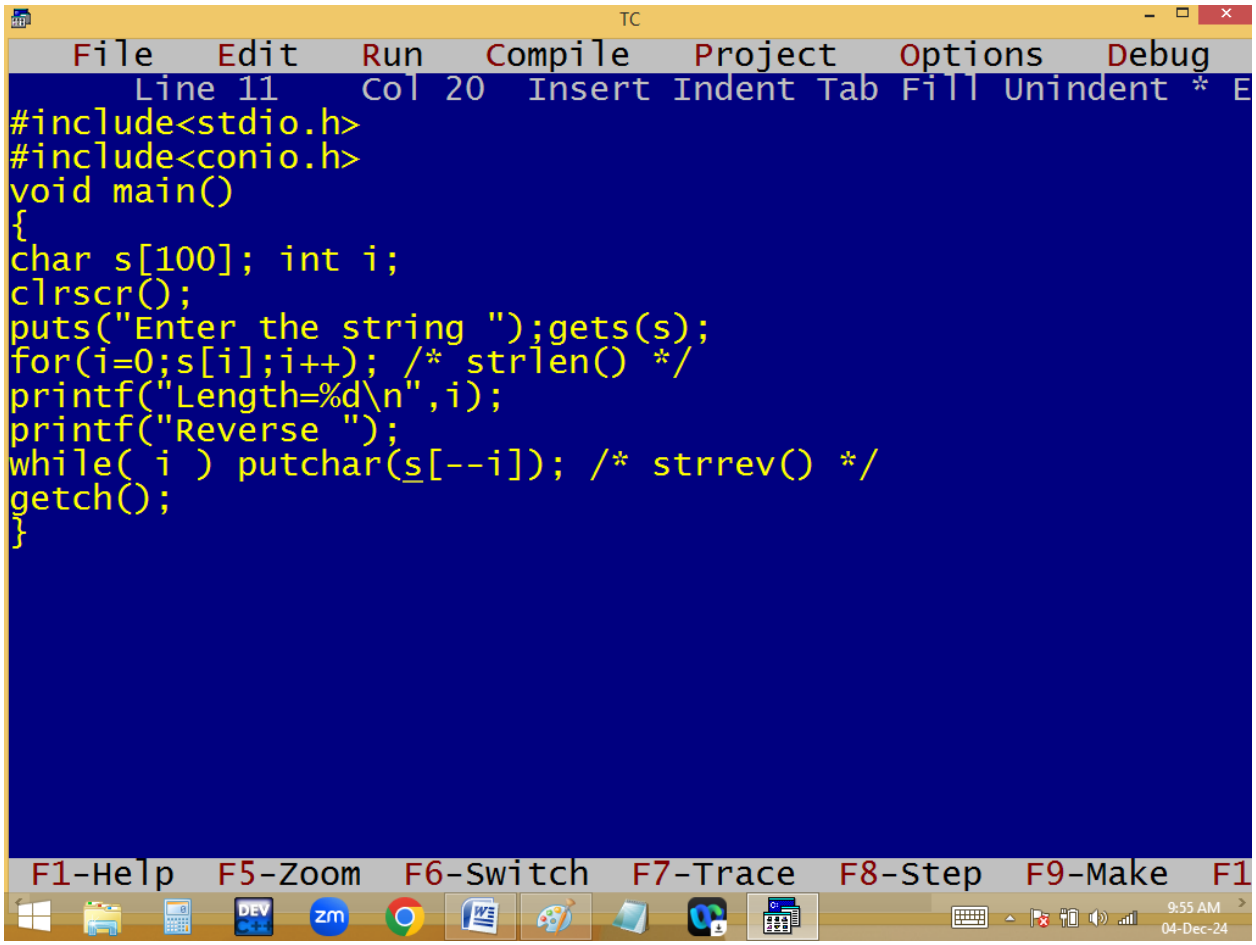

TC
File Edit Run Compile Project Options Debug
Line 14 Col 1 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i;
clrscr();
puts("Enter the string ");gets(s);
for(i=0;s[i]!='\0';i++) /* strlen() */
{
}
printf("Length=%d\n",i);
printf("Reverse ");
while(i) printf("%c", s[--i]); /* strrev() */
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:51 AM
04-Dec-24

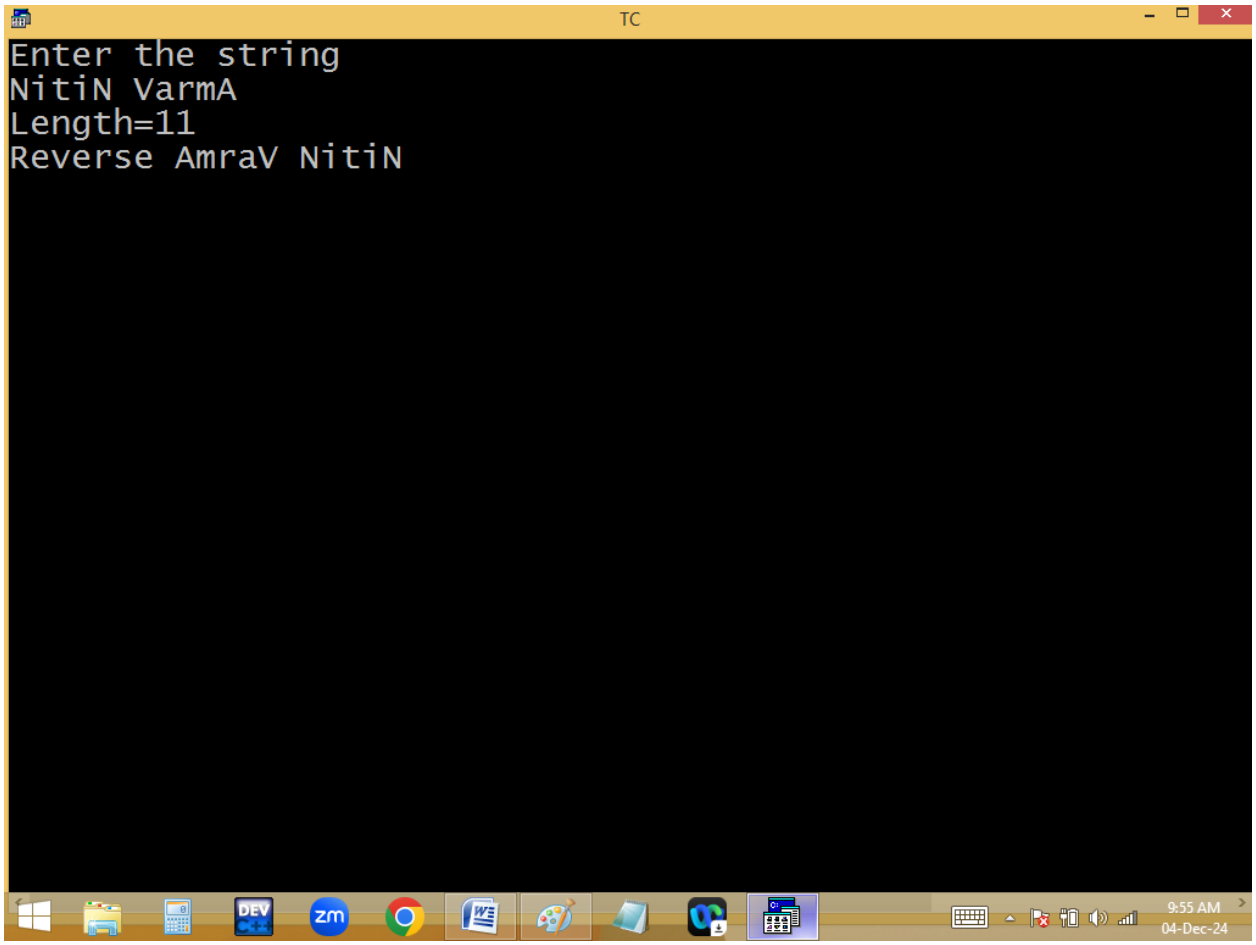

TC
Enter the string
RamA
Length=4
Reverse AmaR
9:51 AM
04-Dec-24


TC
Enter the string
RamU
Length=4
Reverse UmaR
9:52 AM
04-Dec-24

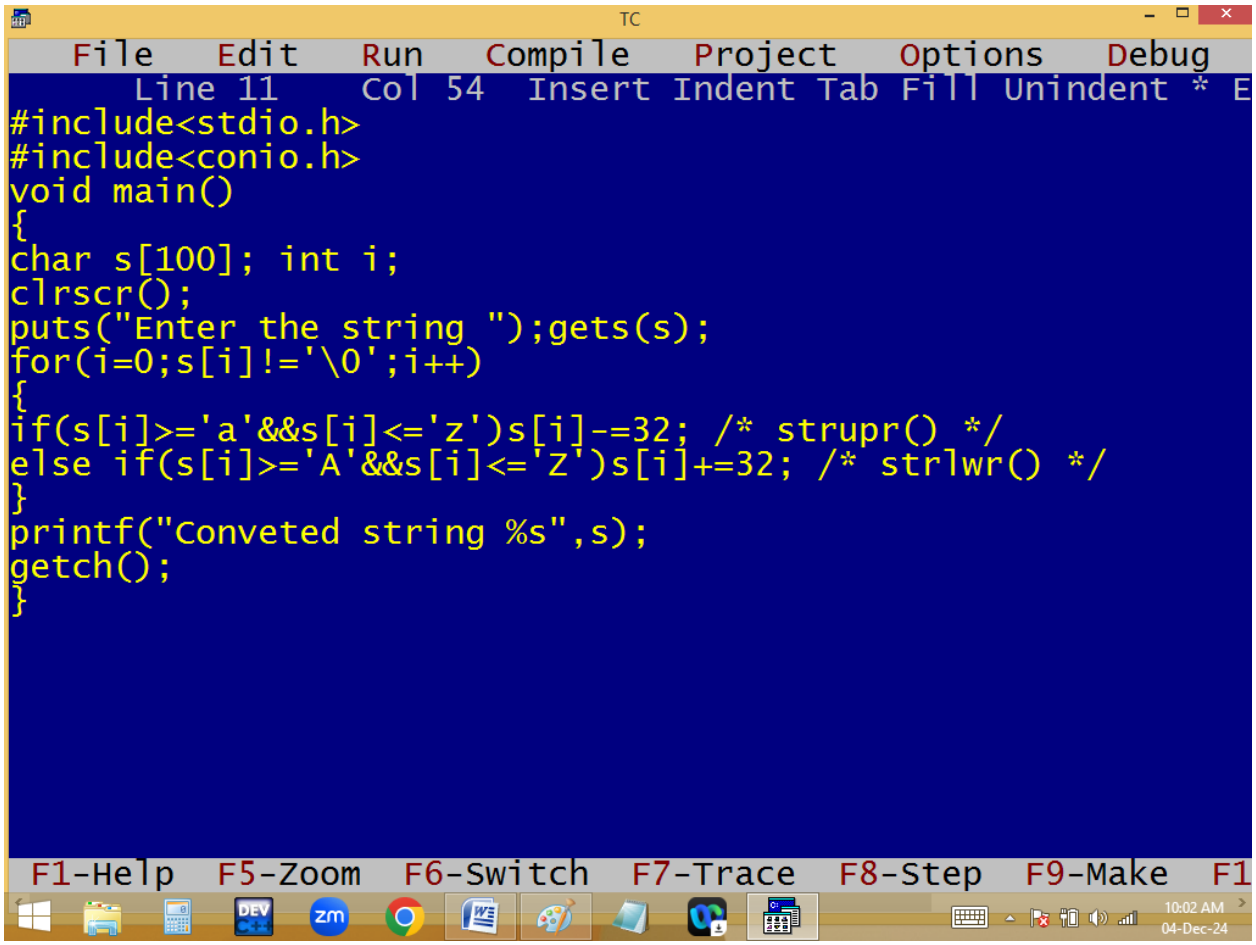

TC
Enter the string
NaYaN ThaRA
Length=11
Reverse AraHT NaYaN_
9:52 AM
04-Dec-24

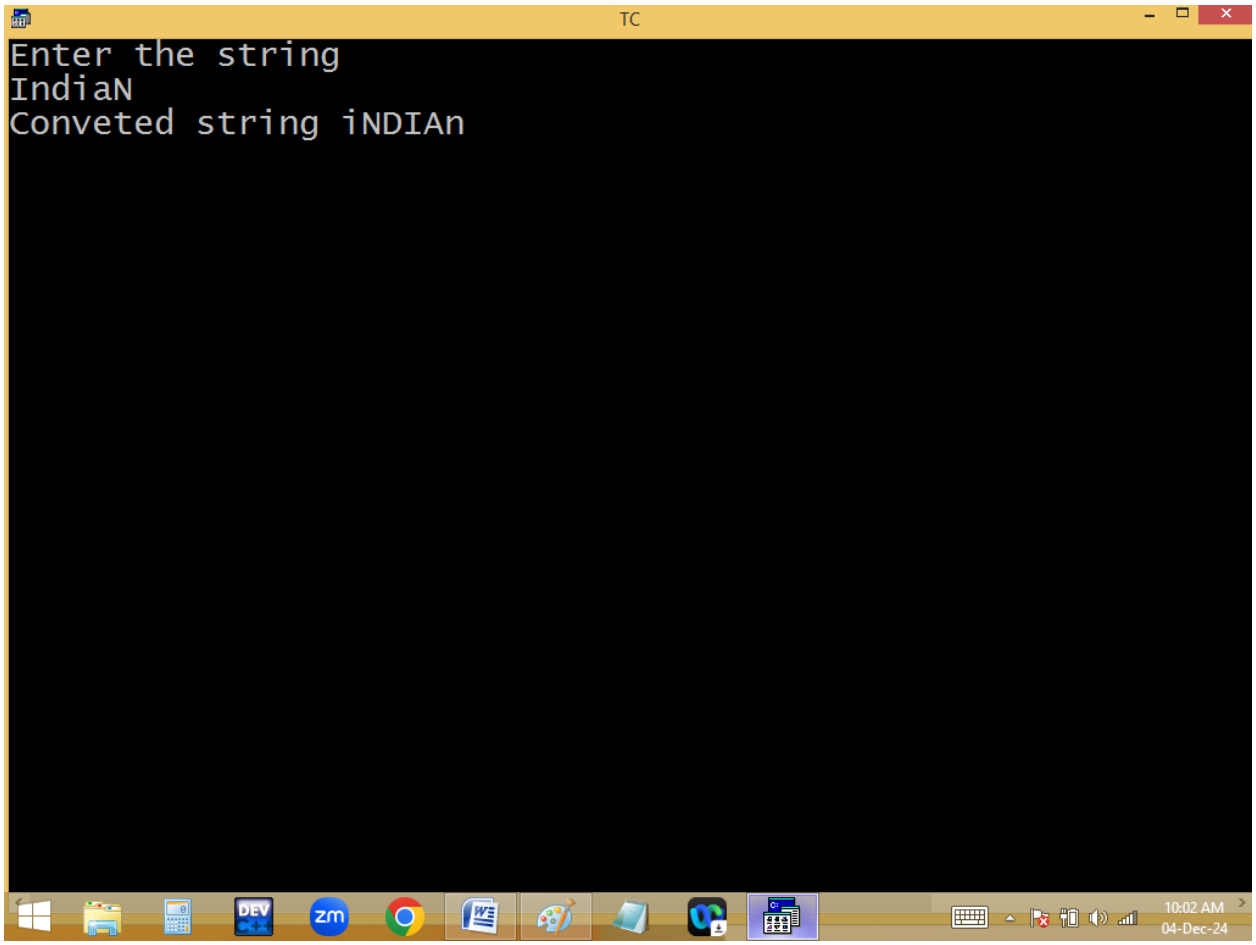

Untitled - Paint
File
Home
View
Paste
Cut
Copy
Select
Crop
Resize
Rotate
Brushes
Outline
Fill
Size
Color 1
Color 2
Edit colors
Clipboard
Image
Tools
Shapes
Colors
for(i=0; s[i]!='\0';I++) /* strlen() */
{
}
p("Length=%d\n", i); 4
p("Reverse ");
while(i) p(s[--i]); /* strrev() */
4
3
2
1
s
r
a
m
a
\0
0 1 2 3 4
i=0 1 2 3 4
3 2 1 0
a m a r
1894 × 763px
100%
9:53 AM
04-Dec-24

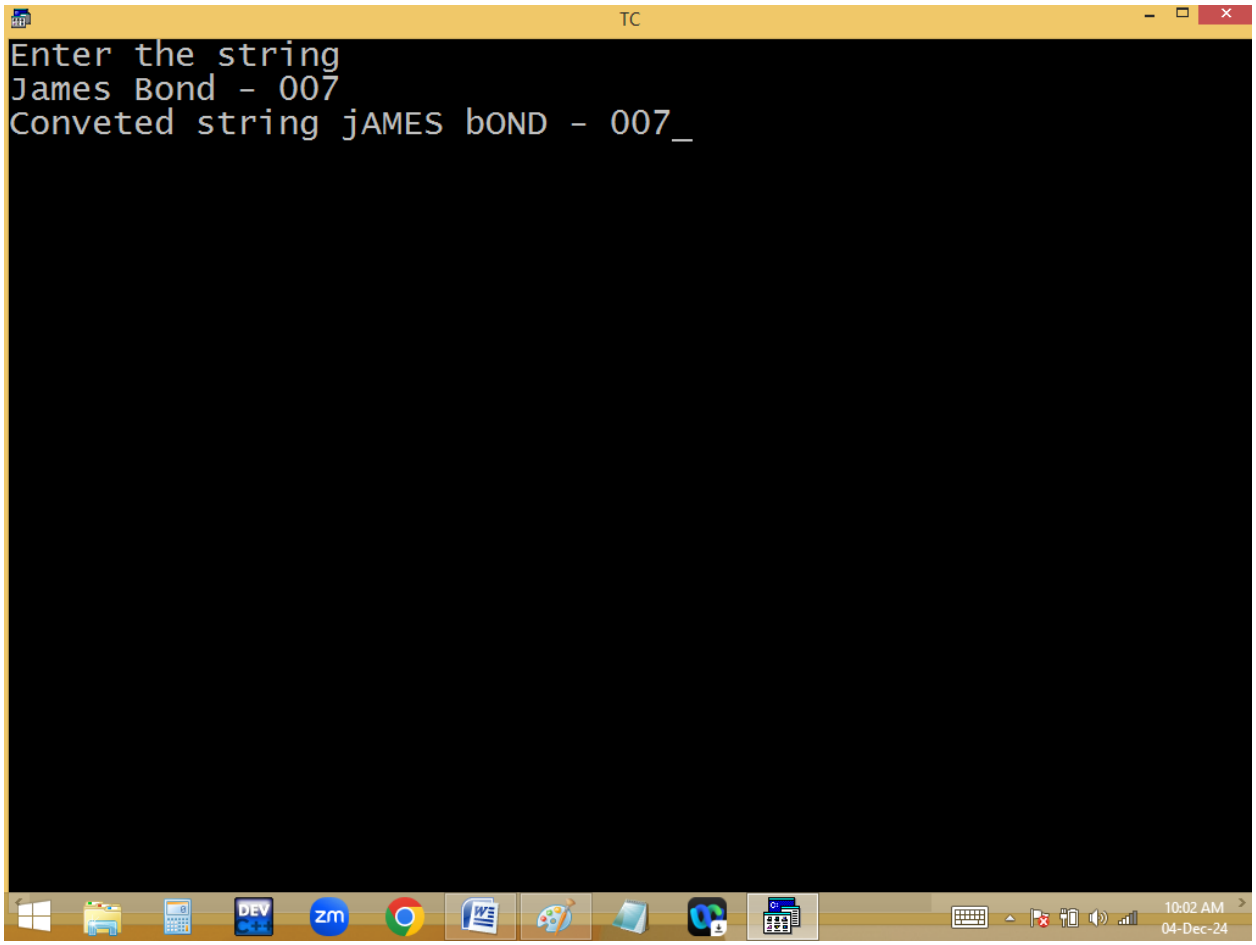

TC
File Edit Run Compile Project Options Debug
Line 11 Col 20 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i;
clrscr();
puts("Enter the string ");gets(s);
for(i=0;s[i];i++); /* strlen() */
printf("Length=%d\n",i);
printf("Reverse ");
while(i) putchar(s[--i]); /* strrev() */
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:55 AM
04-Dec-24



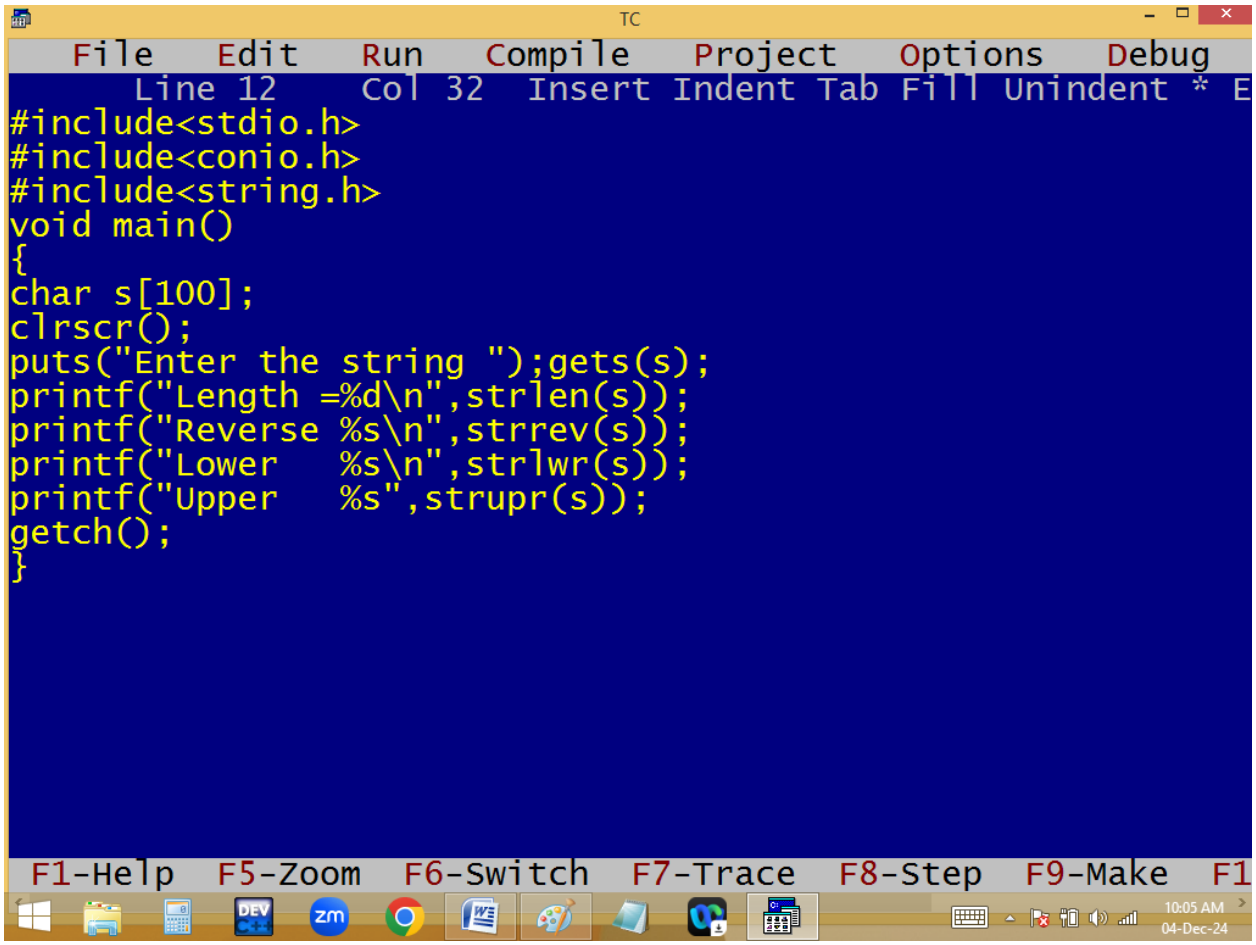
Lower to upper / upper to lower:

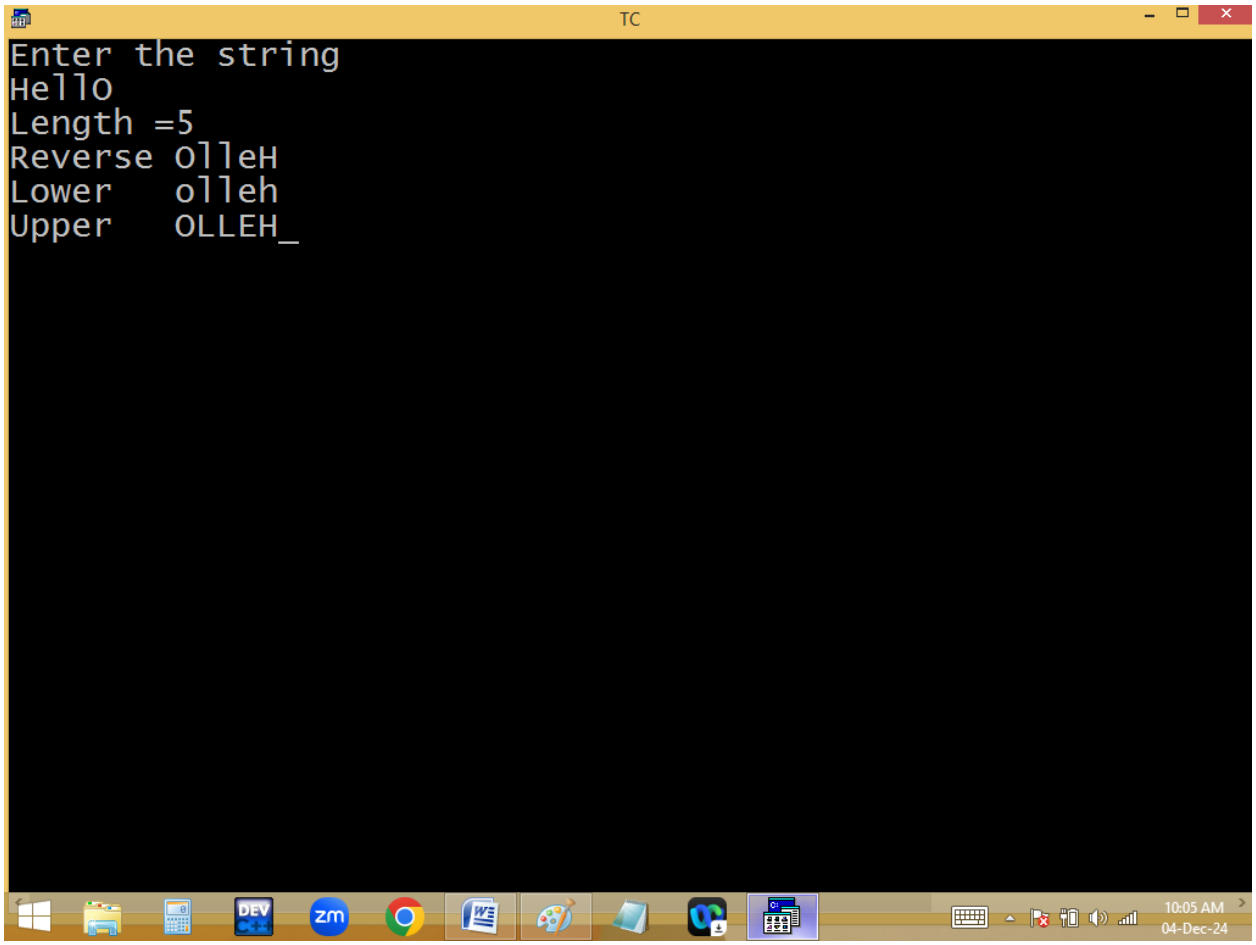

TC
File Edit Run Compile Project Options Debug
Line 11 Col 54 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i;
clrscr();
puts("Enter the string ");gets(s);
for(i=0;s[i]!='\0';i++)
{
if(s[i]>='a'&&s[i]<='z')s[i]-=32; /* strupr() */
else if(s[i]>='A'&&s[i]<='Z')s[i]+=32; /* strlwr() */
}
printf("Conveted string %s",s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:02 AM
04-Dec-24


TC
Enter the string
IndiaN
Conveted string iNDIAn
10:02 AM
04-Dec-24



Using predefined functions:


TC
File Edit Run Compile Project Options Debug
Line 12 Col 32 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s[100];
clrscr();
puts("Enter the string ");gets(s);
printf("Length =%d\n",strlen(s));
printf("Reverse %s\n",strrev(s));
printf("Lower %s\n",strlwr(s));
printf("Upper %s",strupr(s));
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:05 AM
04-Dec-24



Finding no of vowels, consonants, digits, special char's and spaces in given string.

Bahu Bali – 2

Output:

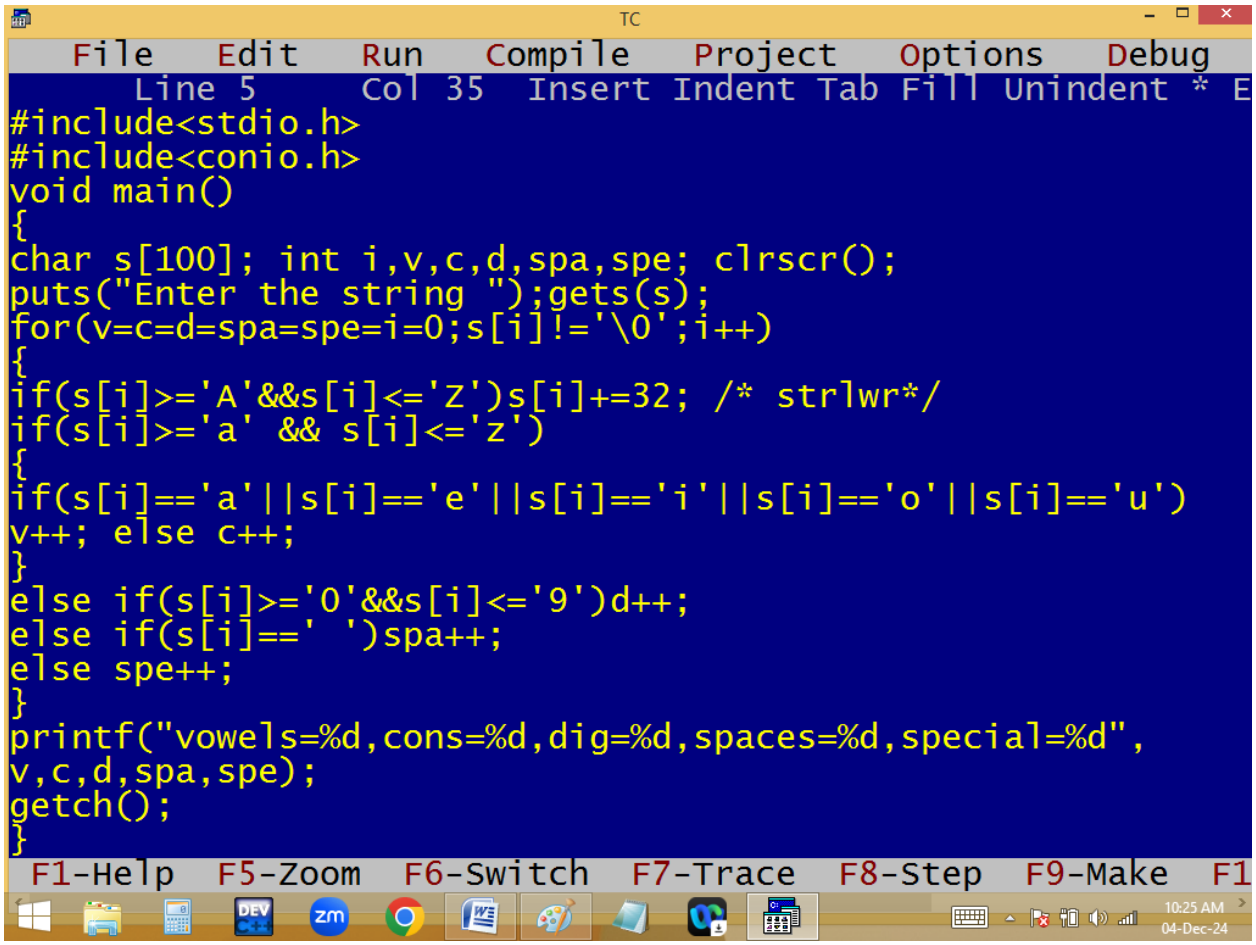
Vowels – 4

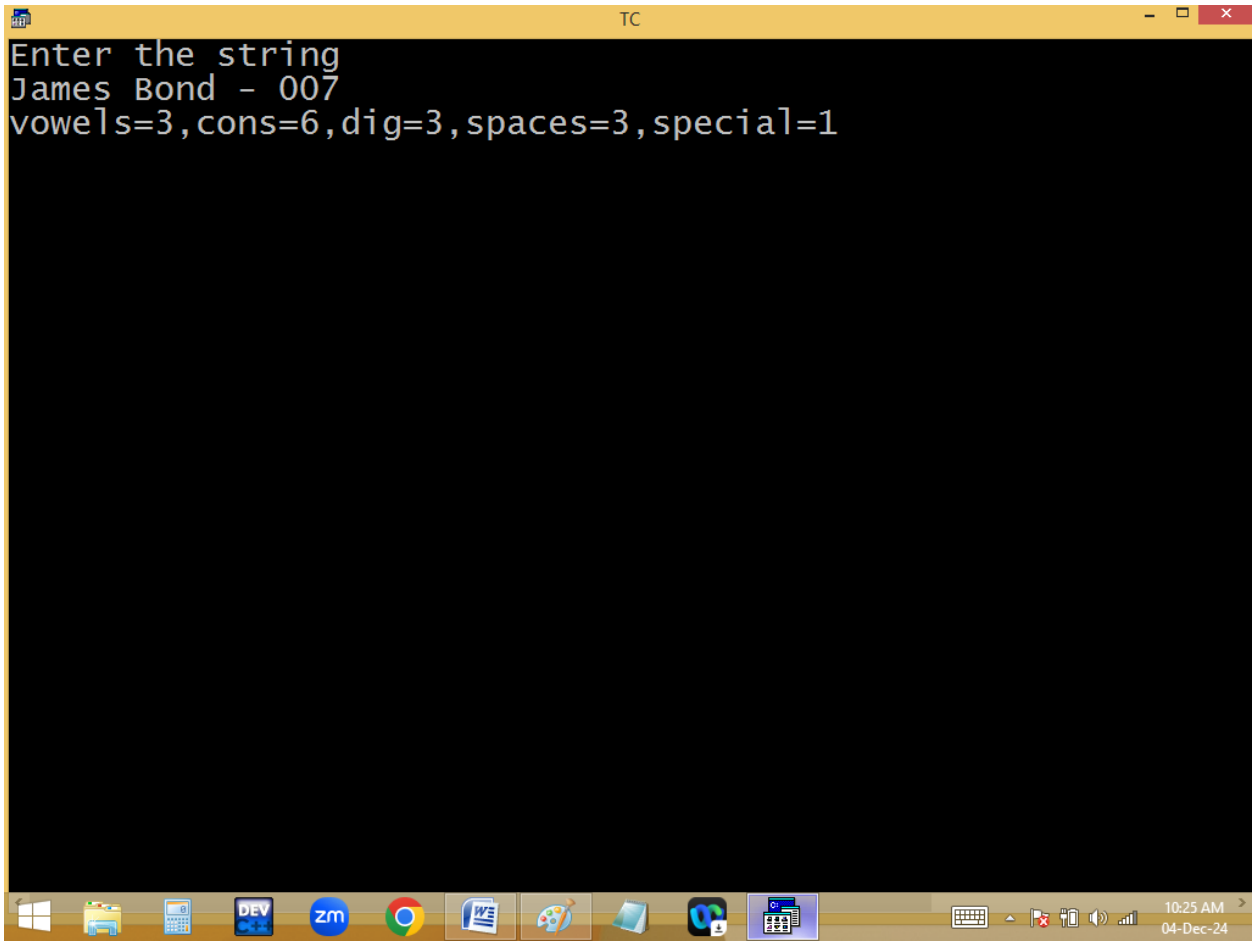
Consonants – 4

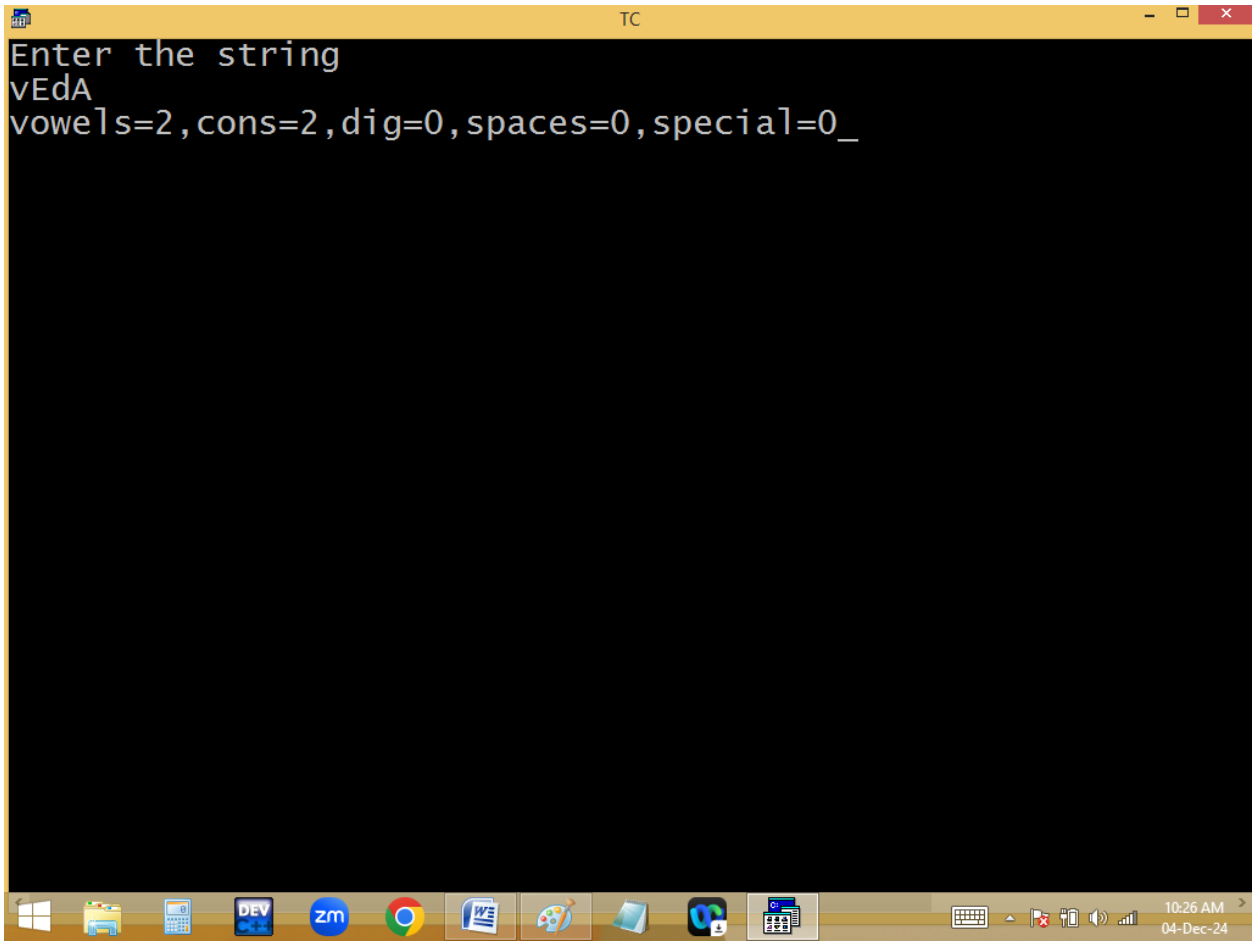
Digits – 1

Spaces = 3

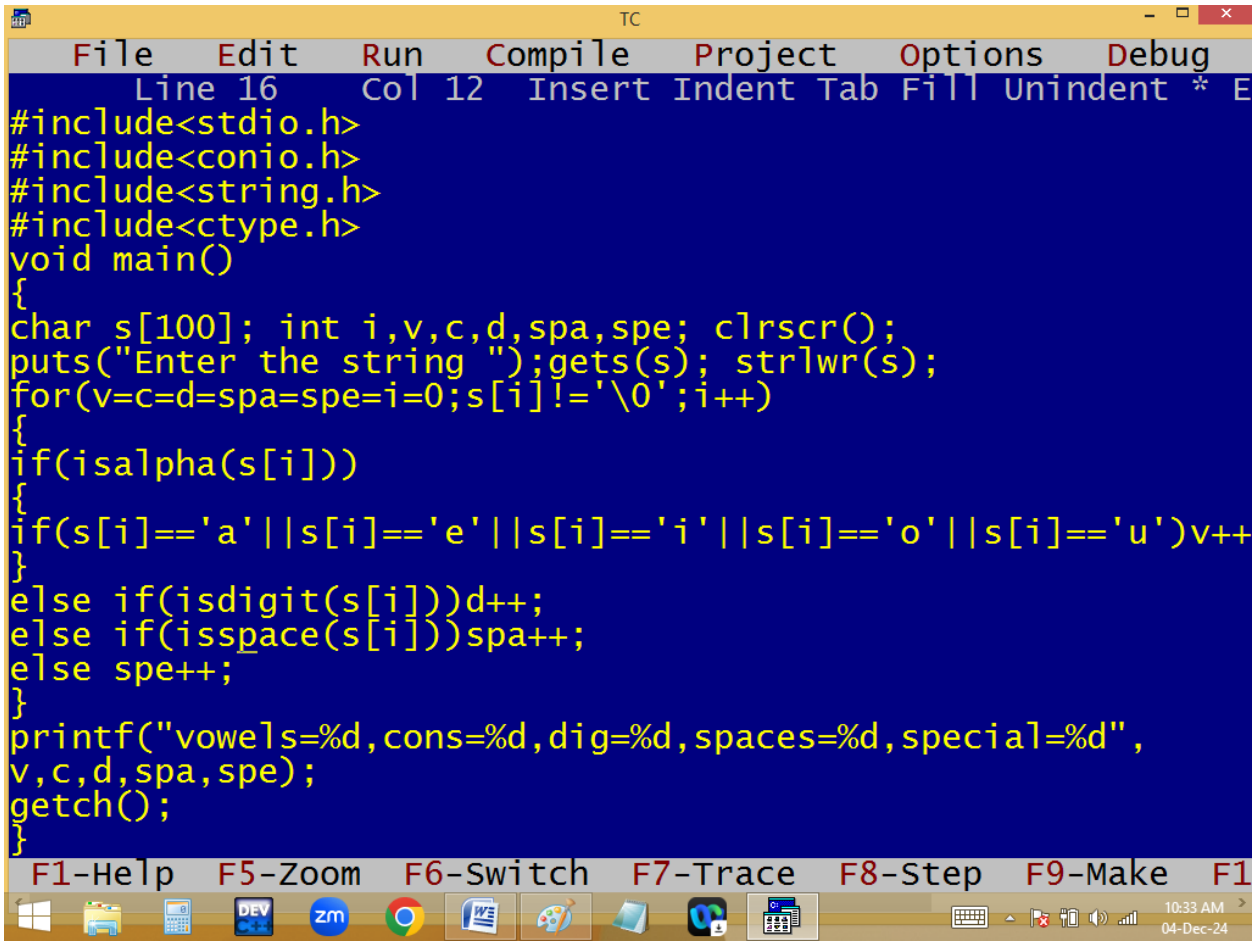
Special - 1

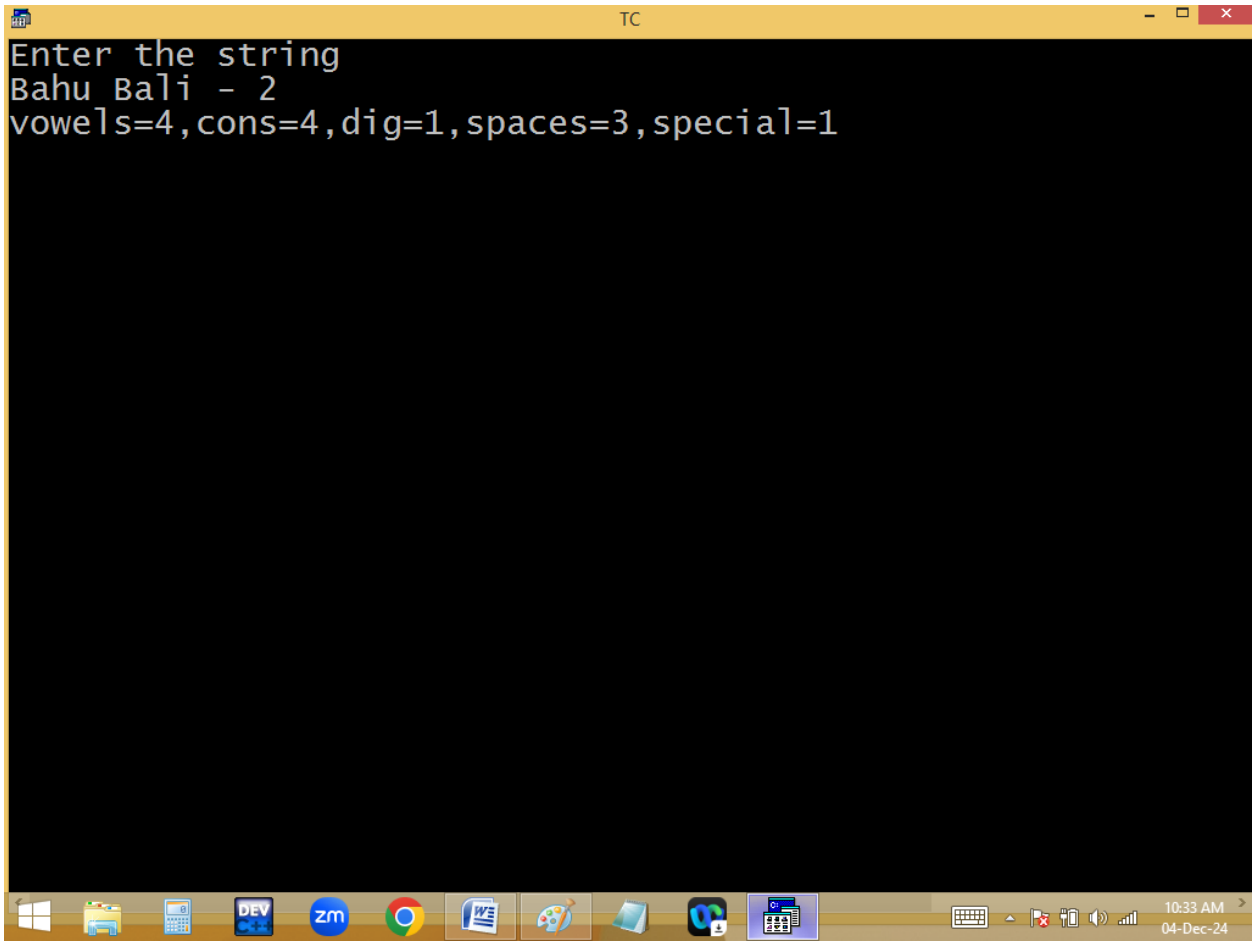

TC
File Edit Run Compile Project Options Debug
Line 5 Col 35 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i,v,c,d,spa,spe; clrscr();
puts("Enter the string ");gets(s);
for(v=c=d=spa=spe=i=0;s[i]!='\0';i++)
{
if(s[i]>='A'&&s[i]<='Z')s[i]+=32; /* strlwr*/
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 if(s[i]>='0'&&s[i]<='9')d++;
else if(s[i]==' ')spa++;
else spe++;
}
printf("vowels=%d,cons=%d,dig=%d,spaces=%d,special=%d",
v,c,d,spa,spe);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:25 AM
04-Dec-24


TC
Enter the string
James Bond - 007
vowels=3,cons=6,dig=3,spaces=3,special=1
10:25 AM
04-Dec-24

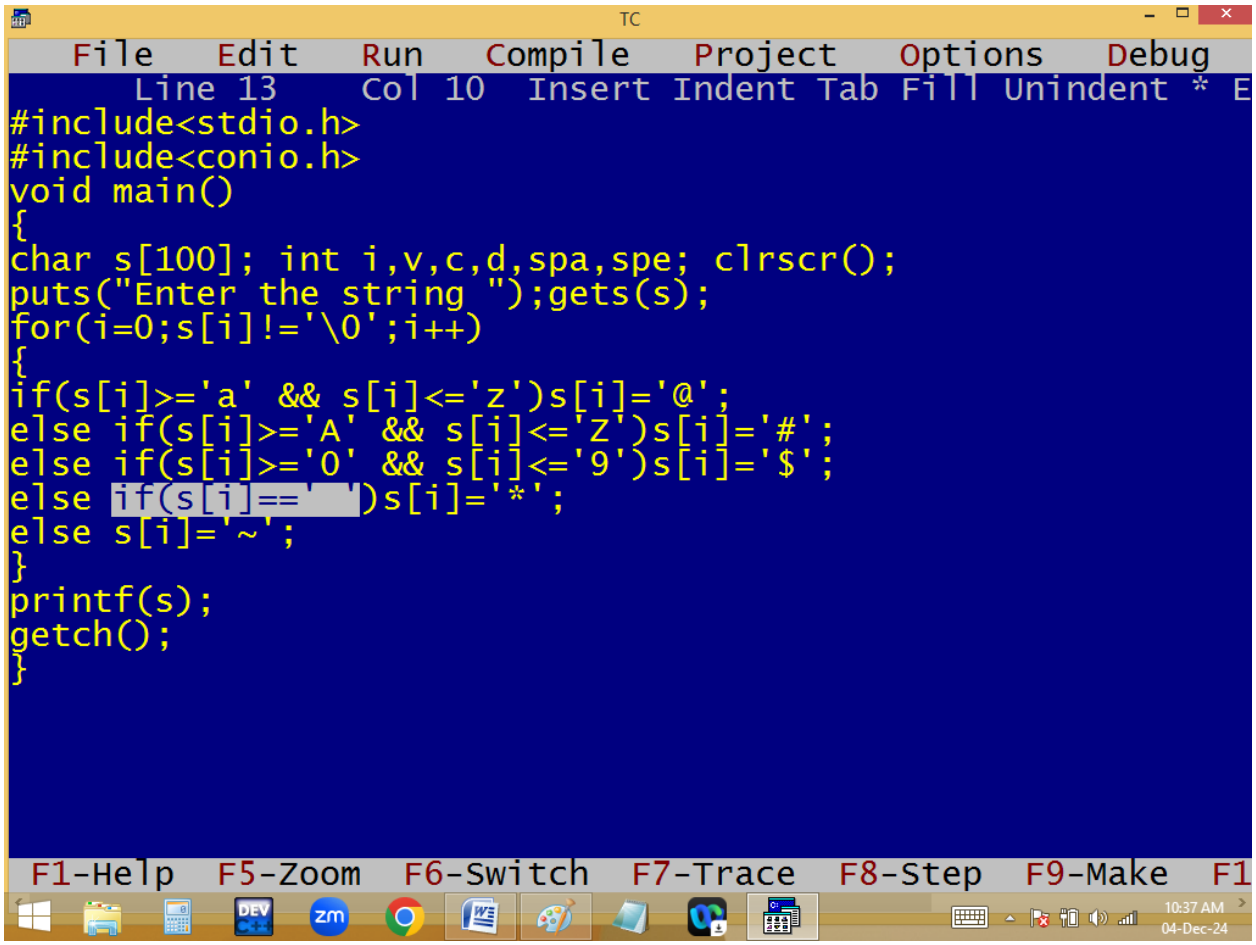


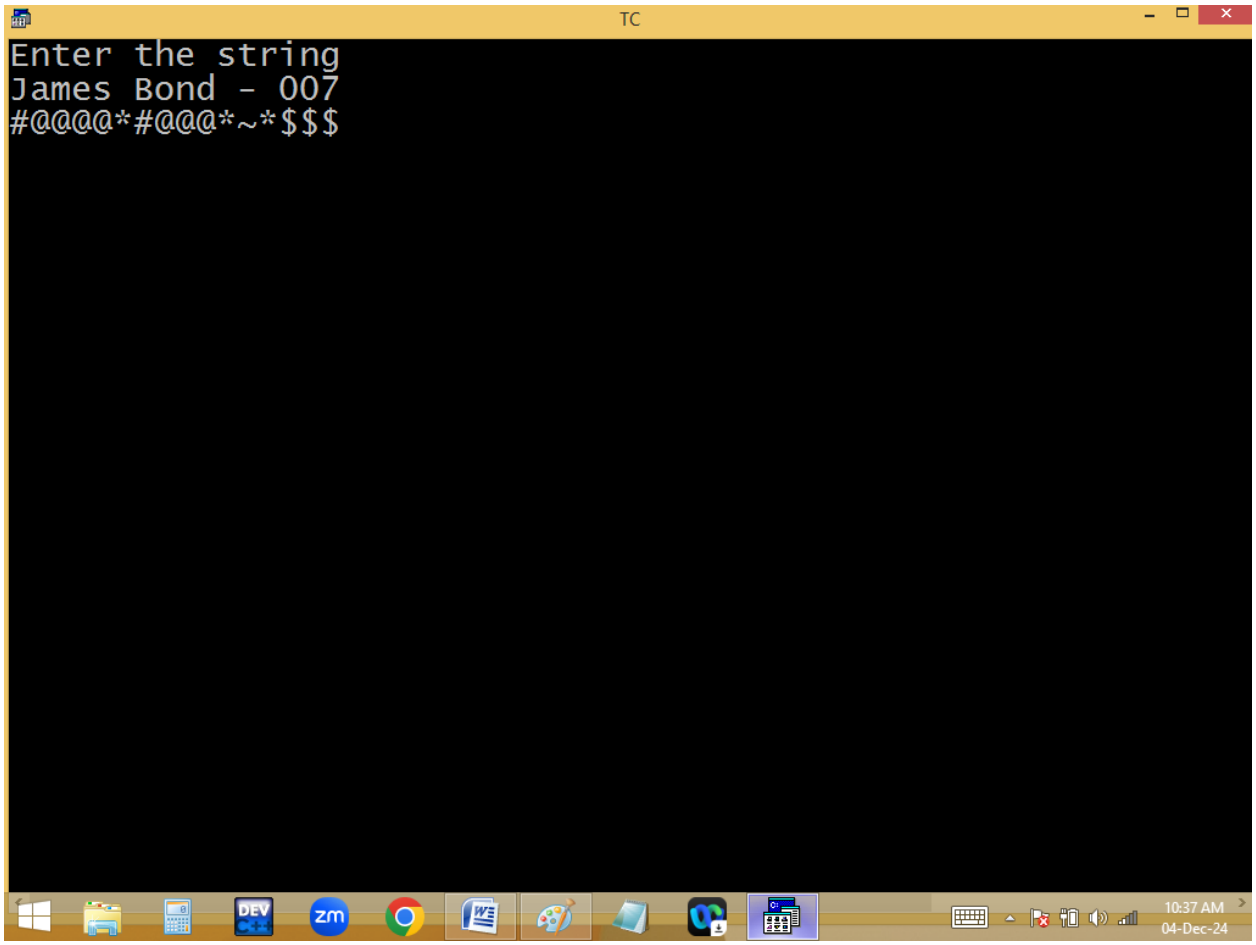
Using predefined functions:

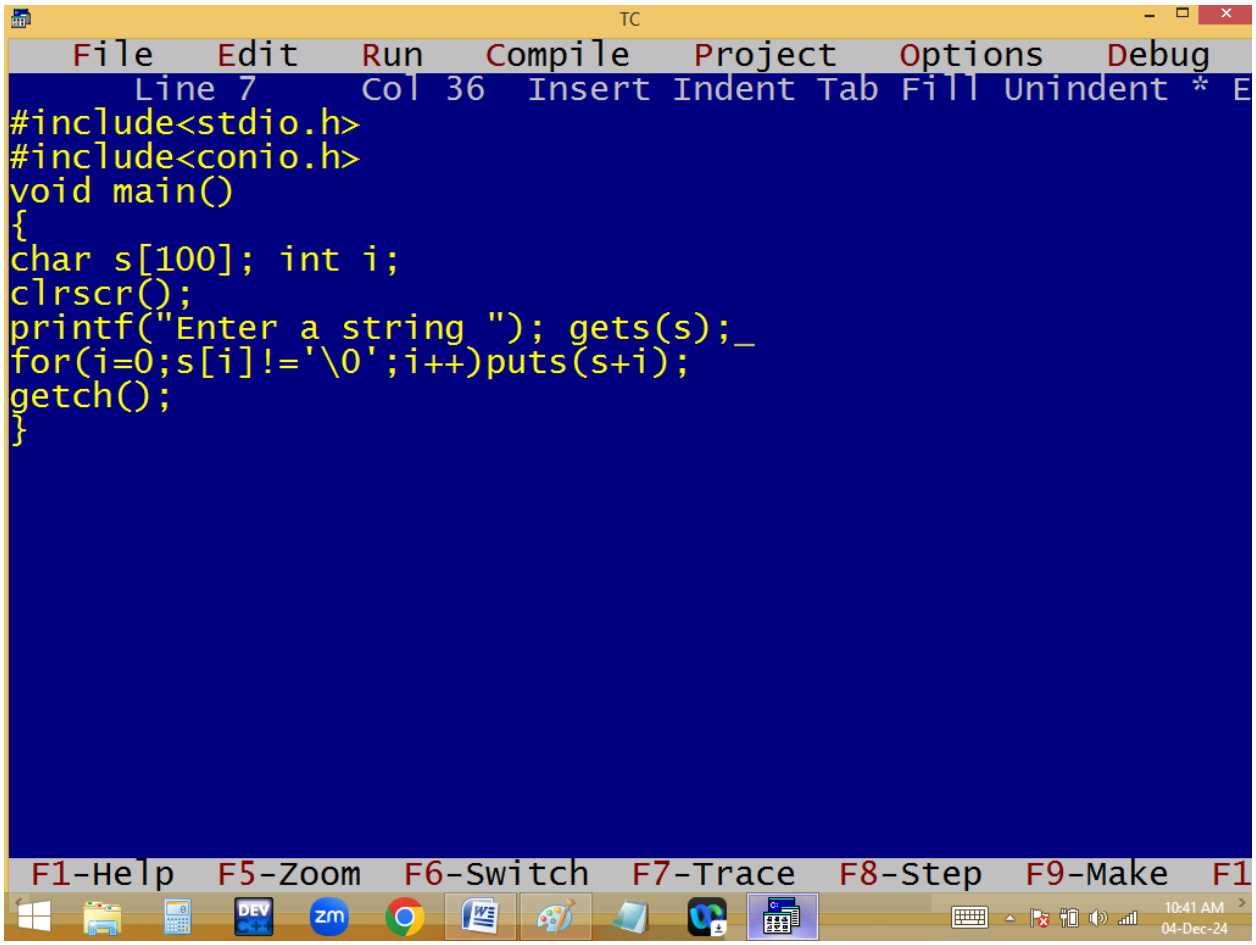

TC
File Edit Run Compile Project Options Debug
Line 16 Col 12 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<ctype.h>
void main()
{
char s[100]; int i,v,c,d,spa,spe; clrscr();
puts("Enter the string ");gets(s); strlwr(s);
for(v=c=d=spa=spe=i=0;s[i]!='\0';i++)
{
if(isalpha(s[i]))
{
if(s[i]=='a'||s[i]=='e'||s[i]=='i'||s[i]=='o'||s[i]=='u')v++
}
else if(isdigit(s[i]))d++;
else if(isspace(s[i]))spa++;
else spe++;
}
printf("vowels=%d,cons=%d,dig=%d,spaces=%d,special=%d",
v,c,d,spa,spe);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:33 AM
04-Dec-24

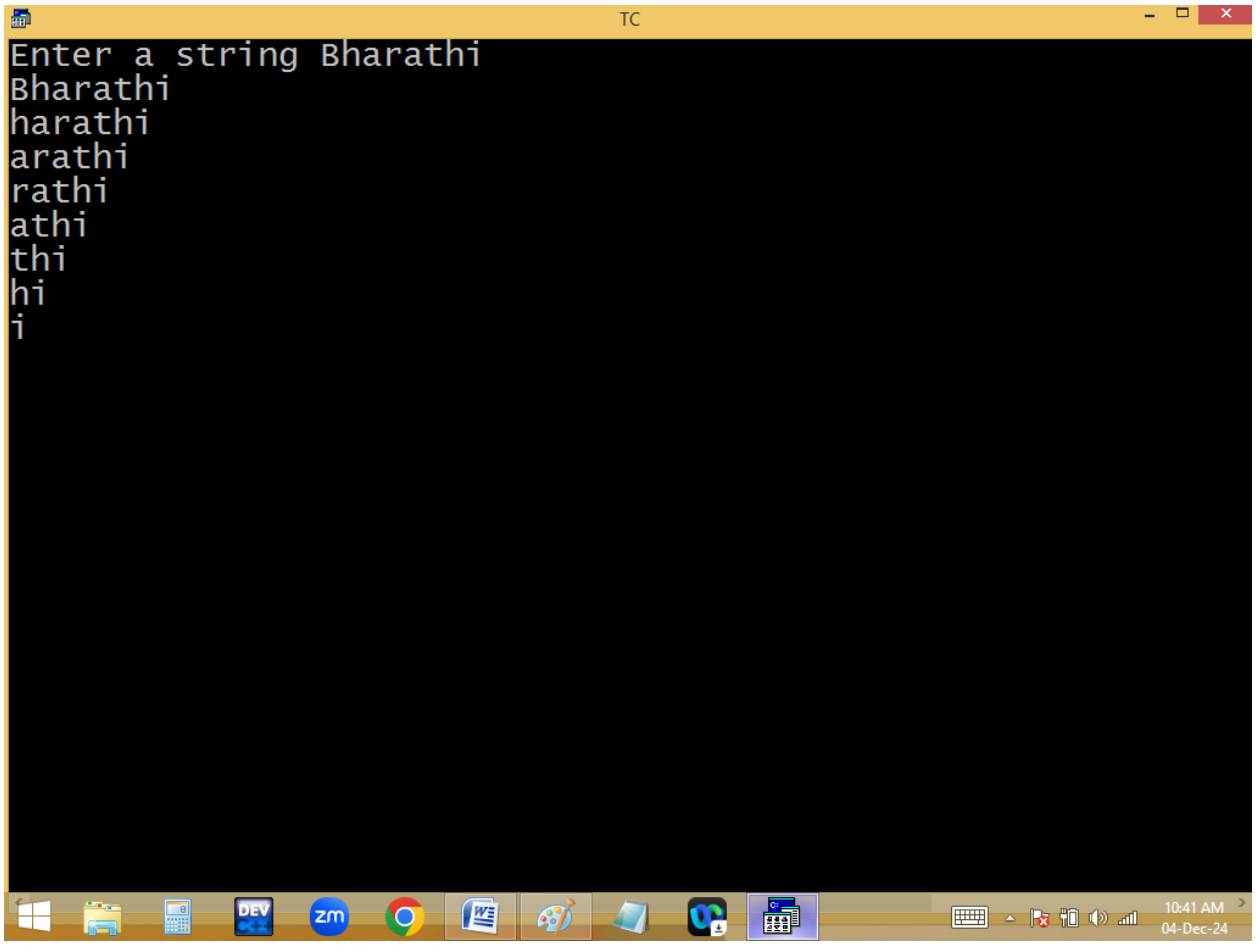


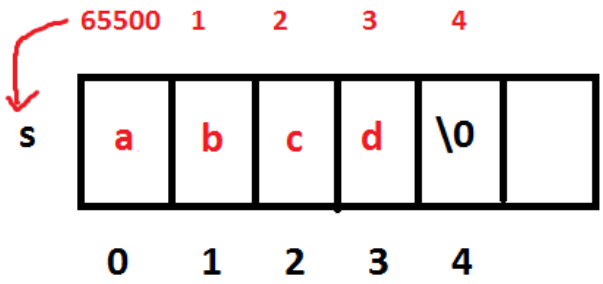
Replace lower/upper/digits/spaces/special with @/#/$/*/~


TC
File Edit Run Compile Project Options Debug
Line 13 Col 10 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i,v,c,d,spa,spe; clrscr();
puts("Enter the string ");gets(s);
for(i=0;s[i]!='\0';i++)
{
if(s[i]>='a' && s[i]<='z')s[i]='@';
else if(s[i]>='A' && s[i]<='Z')s[i]='#';
else if(s[i]>='0' && s[i]<='9')s[i]='$';
else if(s[i]==' ')s[i]='*';
else s[i]='~';
}
printf(s);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:37 AM
04-Dec-24


TC
Enter the string
James Bond - 007
#@@@@*#@@@*~*$$$
10:37 AM
04-Dec-24


TC
File Edit Run Compile Project Options Debug
Line 7 Col 36 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i;
clrscr();
printf("Enter a string "); gets(s);_
for(i=0;s[i]!='\0';i++)puts(s+i);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:41 AM
04-Dec-24






```
for( i=0; s[i]!='\0'; i++ )  puts( s+i );
```

65500+0*1=65500 to \0 ==> abcd
65500+1*1=65501 to \0 ==> bcd
65500+2*1=65502 to \0 ==> cd
65500+3*1=65503 to \0 ==> d
65500+4*1=65504 ==> \0 != \0 ==> False

Home work:

1.

abcd

abc

ab

a

2. sachin ramesh tendulkar ➔ s r t

Kabhi Kushi Kabhi Ghum – kkkg

Ranam Raudram Rudhiram – RRR

3. Jaanu I miss you ➔ 4 words