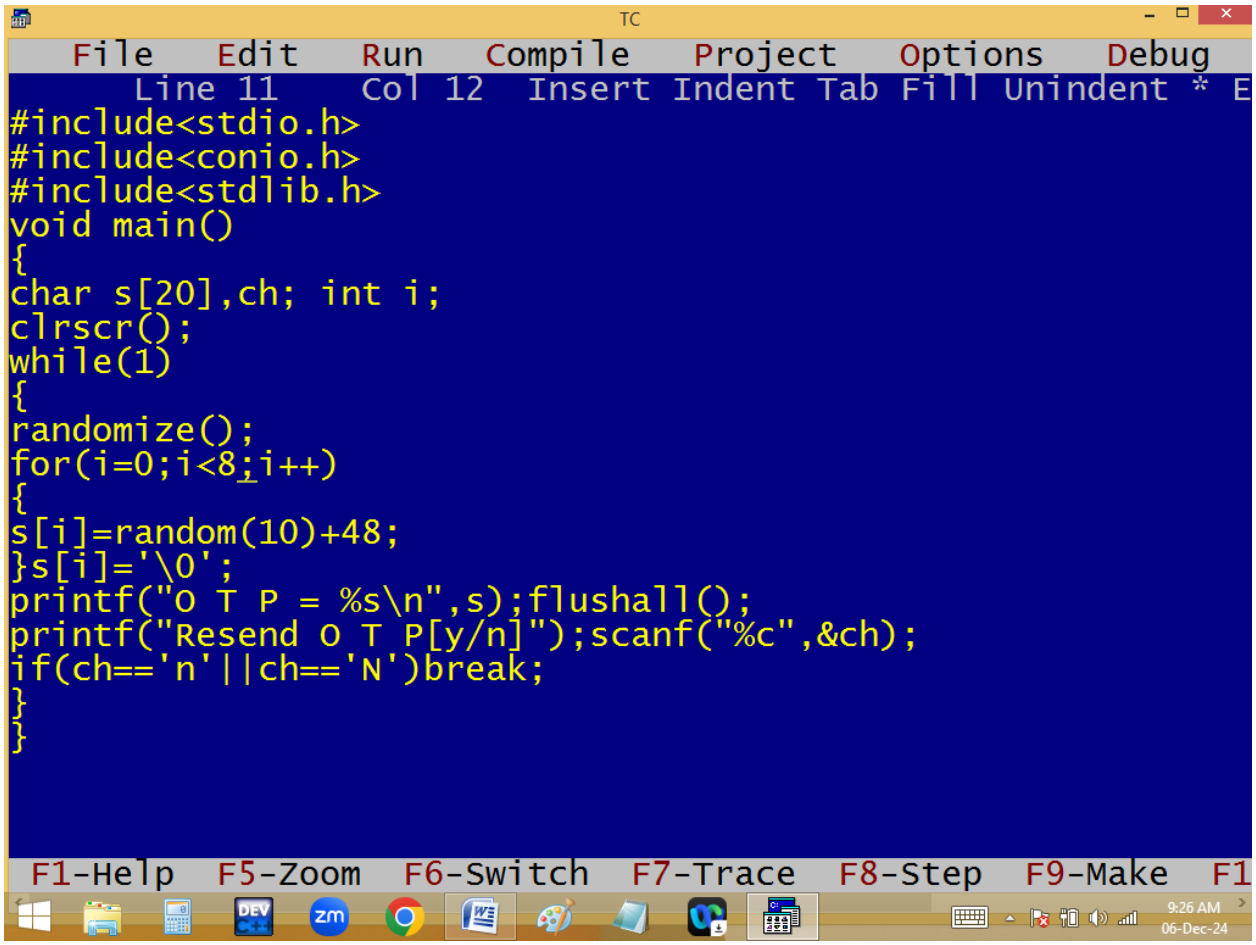
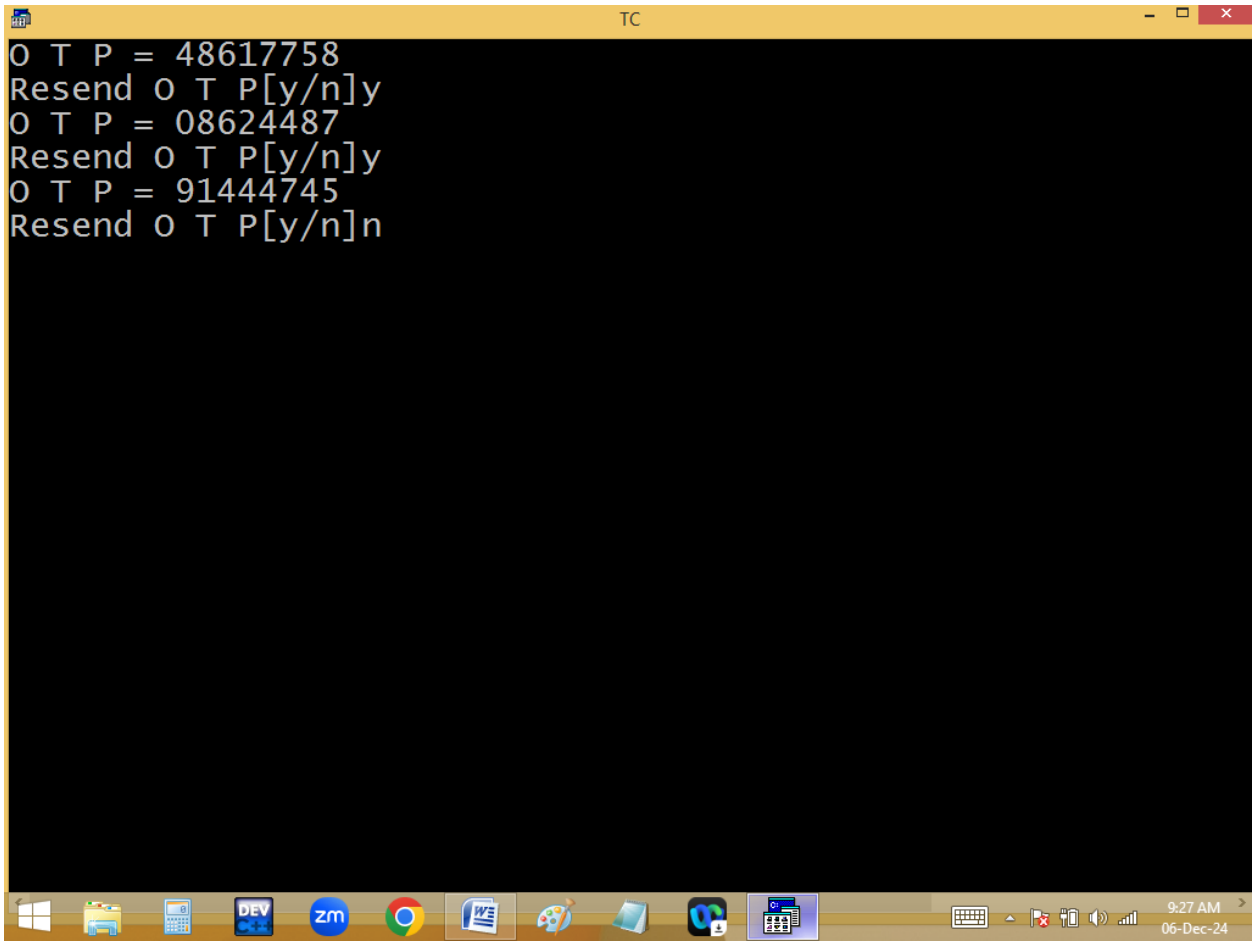
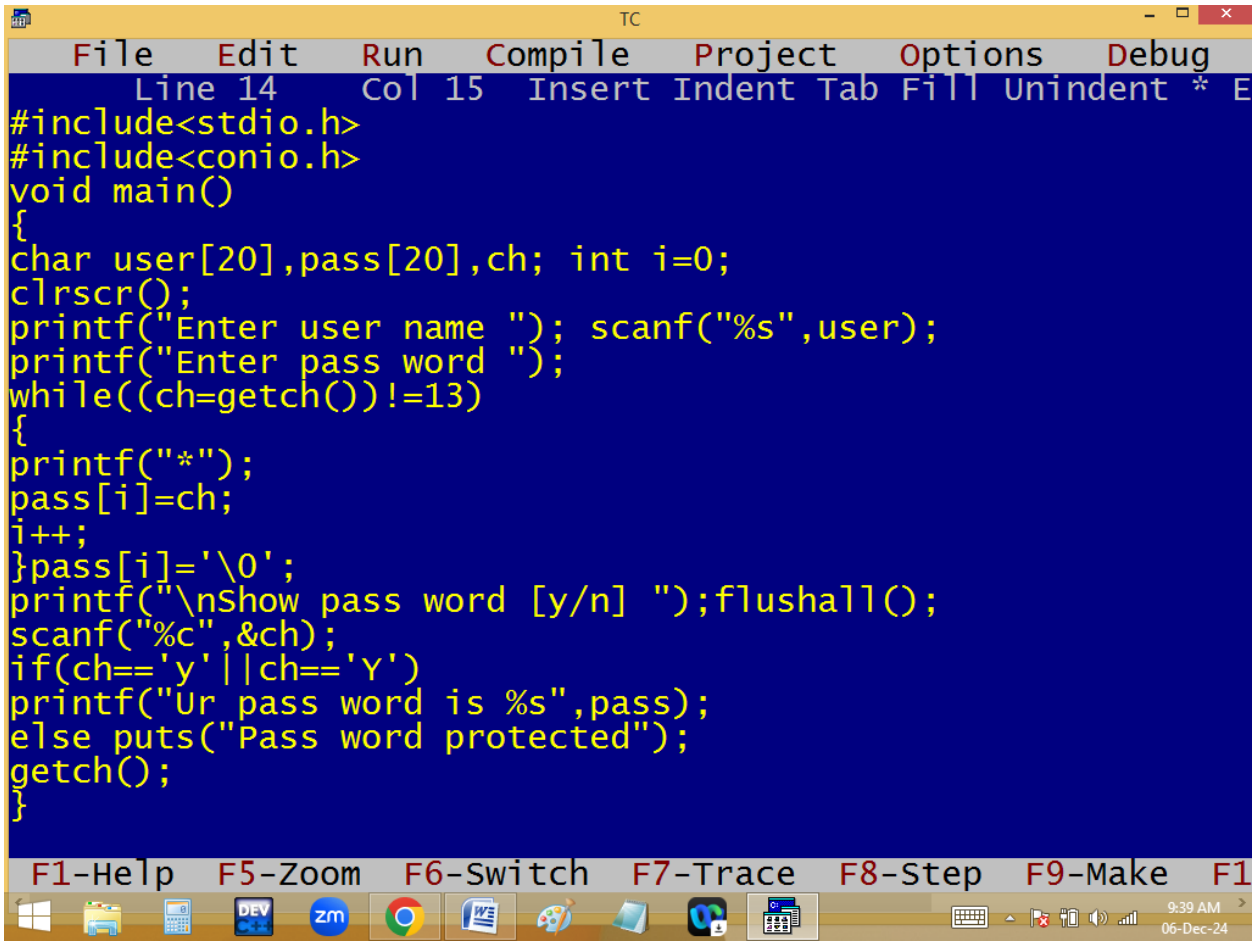
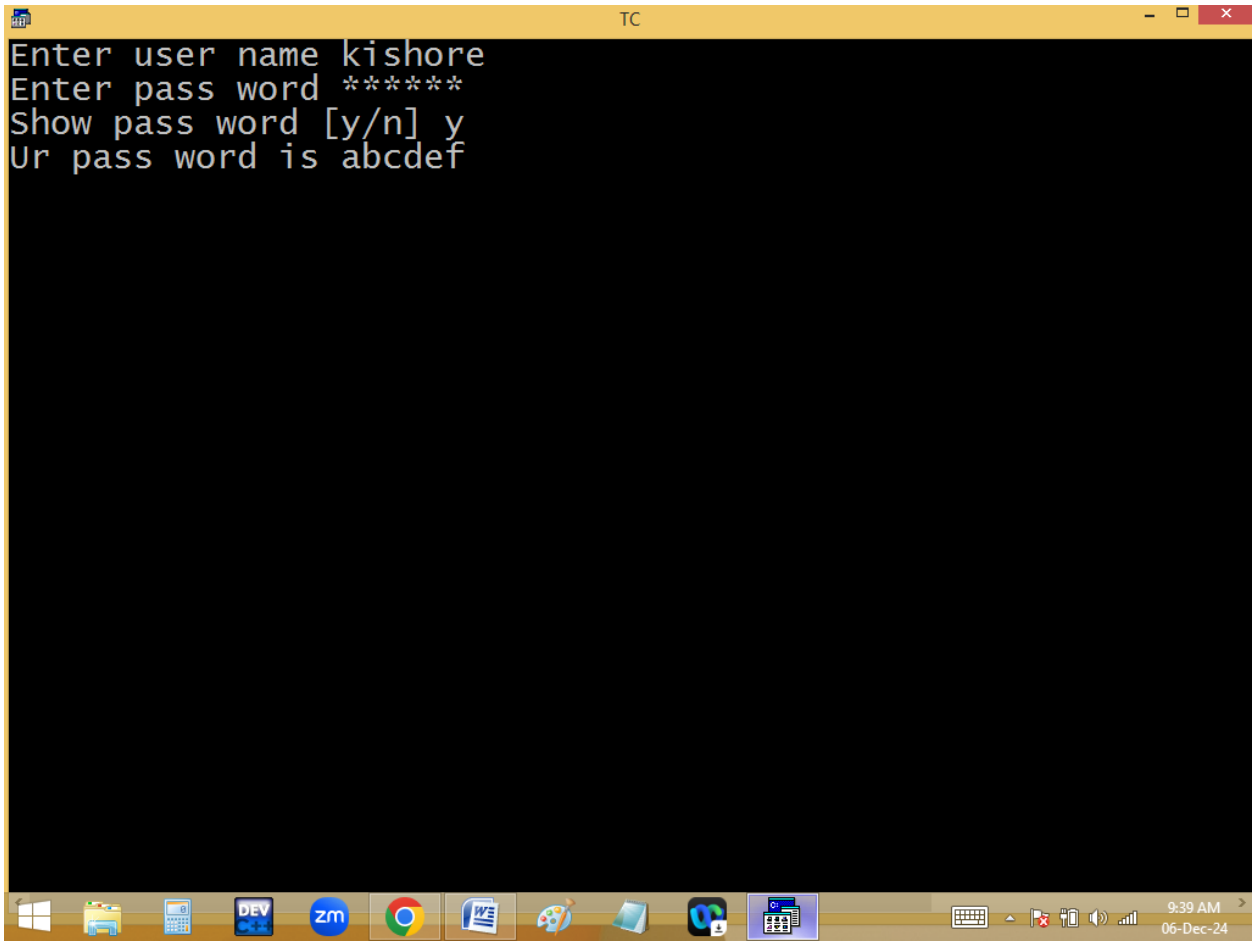
O T P Generation:

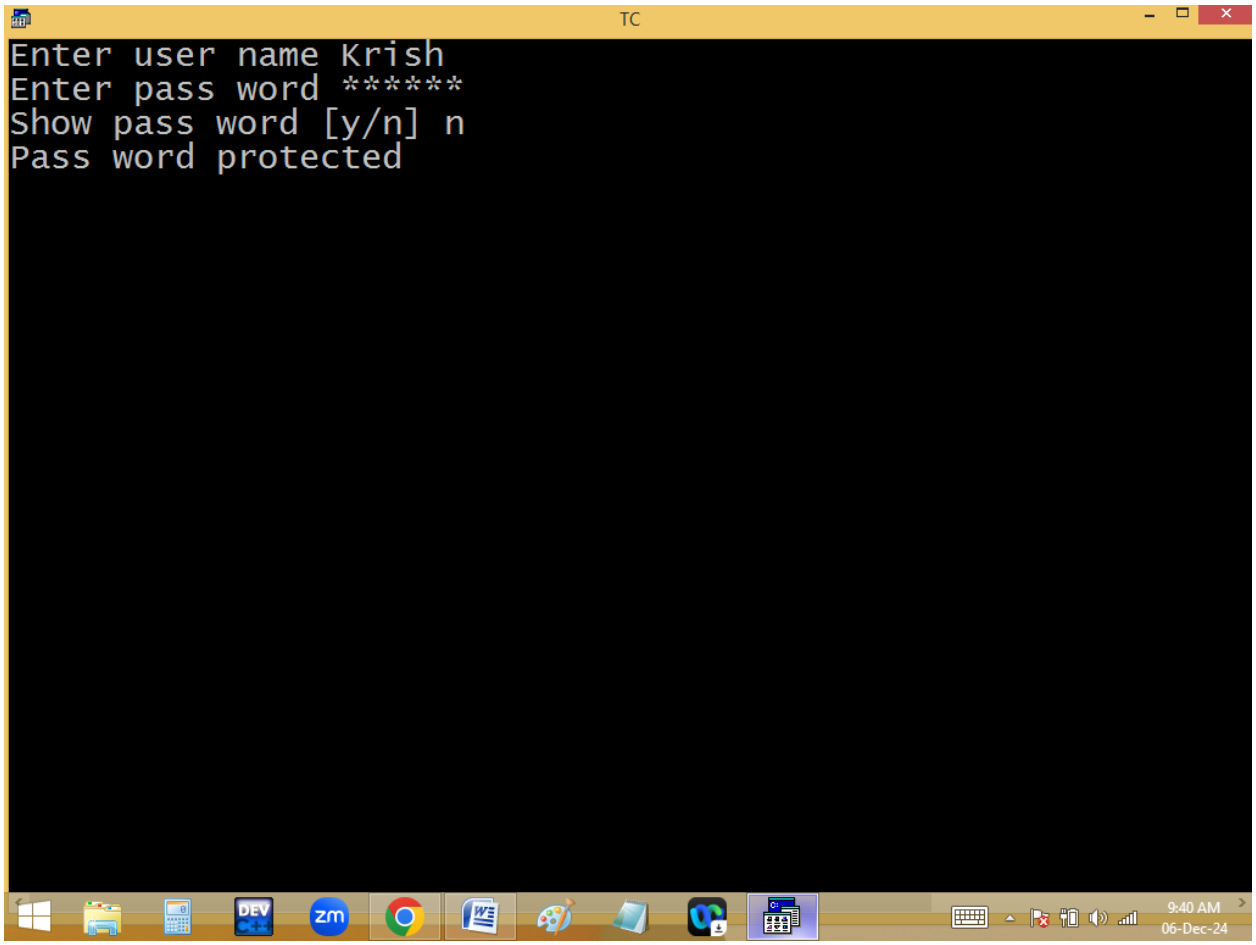

TC
File Edit Run Compile Project Options Debug
Line 11 Col 12 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
{
char s[20],ch; int i;
clrscr();
while(1)
{
randomize();
for(i=0;i<8;i++)
{
s[i]=random(10)+48;
}s[i]='\0';
printf("O T P = %s\n",s);flushall();
printf("Resend O T P[y/n]");scanf("%c",&ch);
if(ch=='n'||ch=='N')break;
}
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:26 AM
06-Dec-24



Pass word creation:

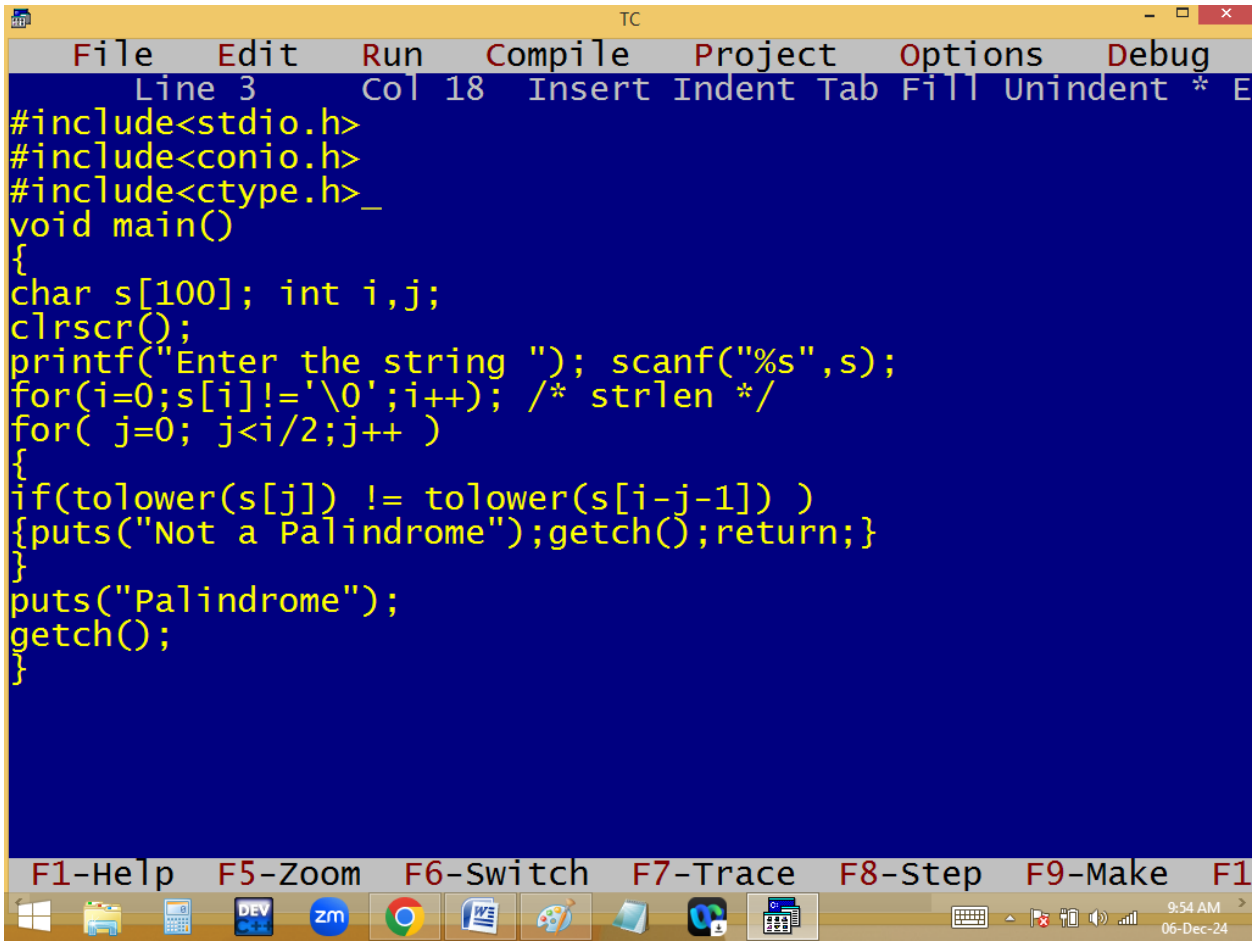

TC
File Edit Run Compile Project Options Debug
Line 14 Col 15 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char user[20],pass[20],ch; int i=0;
clrscr();
printf("Enter user name "); scanf("%s",user);
printf("Enter pass word ");
while((ch=getch())!=13)
{
printf("*");
pass[i]=ch;
i++;
}pass[i]='\0';
printf("\nShow pass word [y/n] ");flushall();
scanf("%c",&ch);
if(ch=='y'||ch=='Y')
printf("Ur pass word is %s",pass);
else puts("Pass word protected");
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:39 AM
06-Dec-24

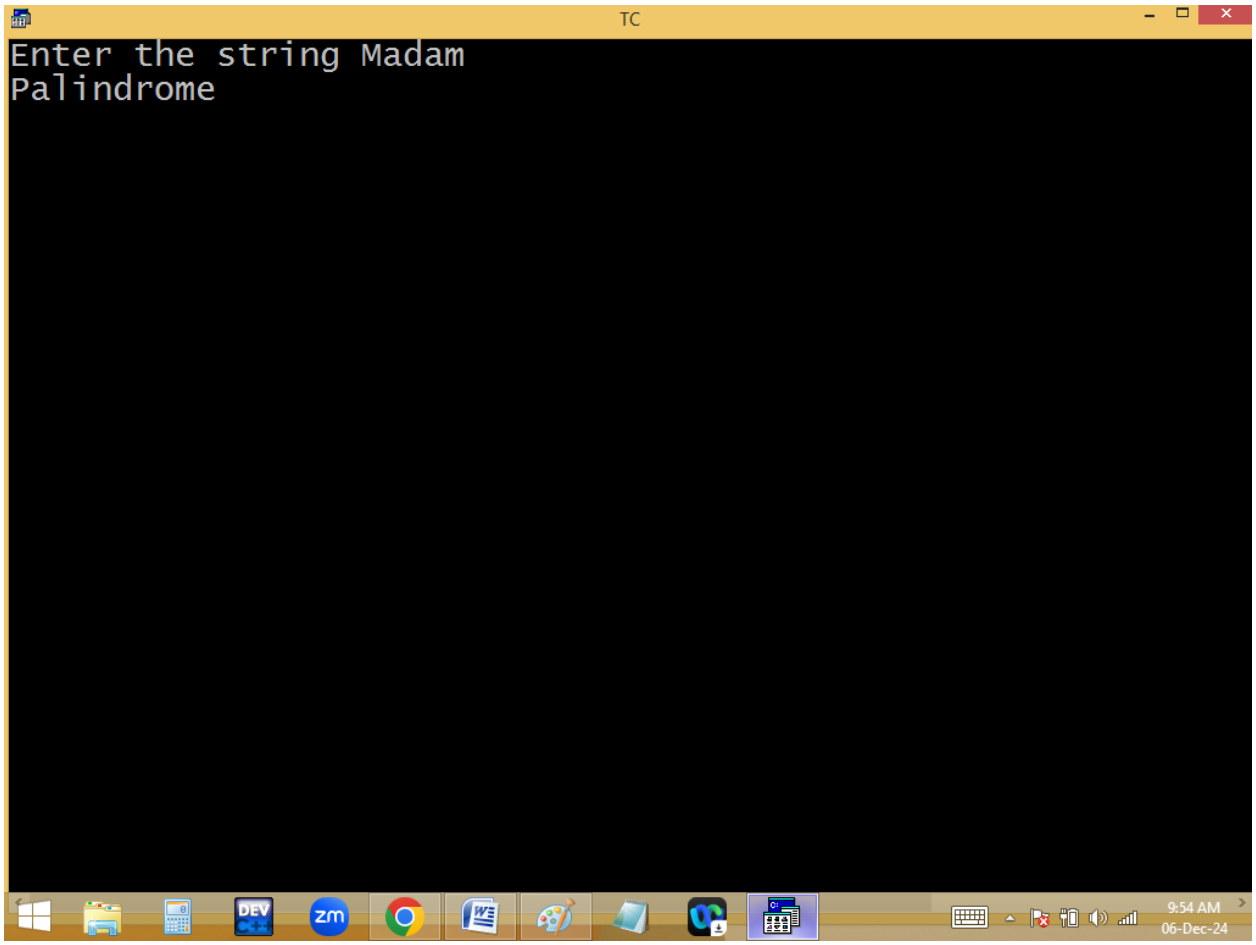

TC
Enter user name kishore
Enter pass word ******
Show pass word [y/n] y
Ur pass word is abcdef
9:39 AM
06-Dec-24

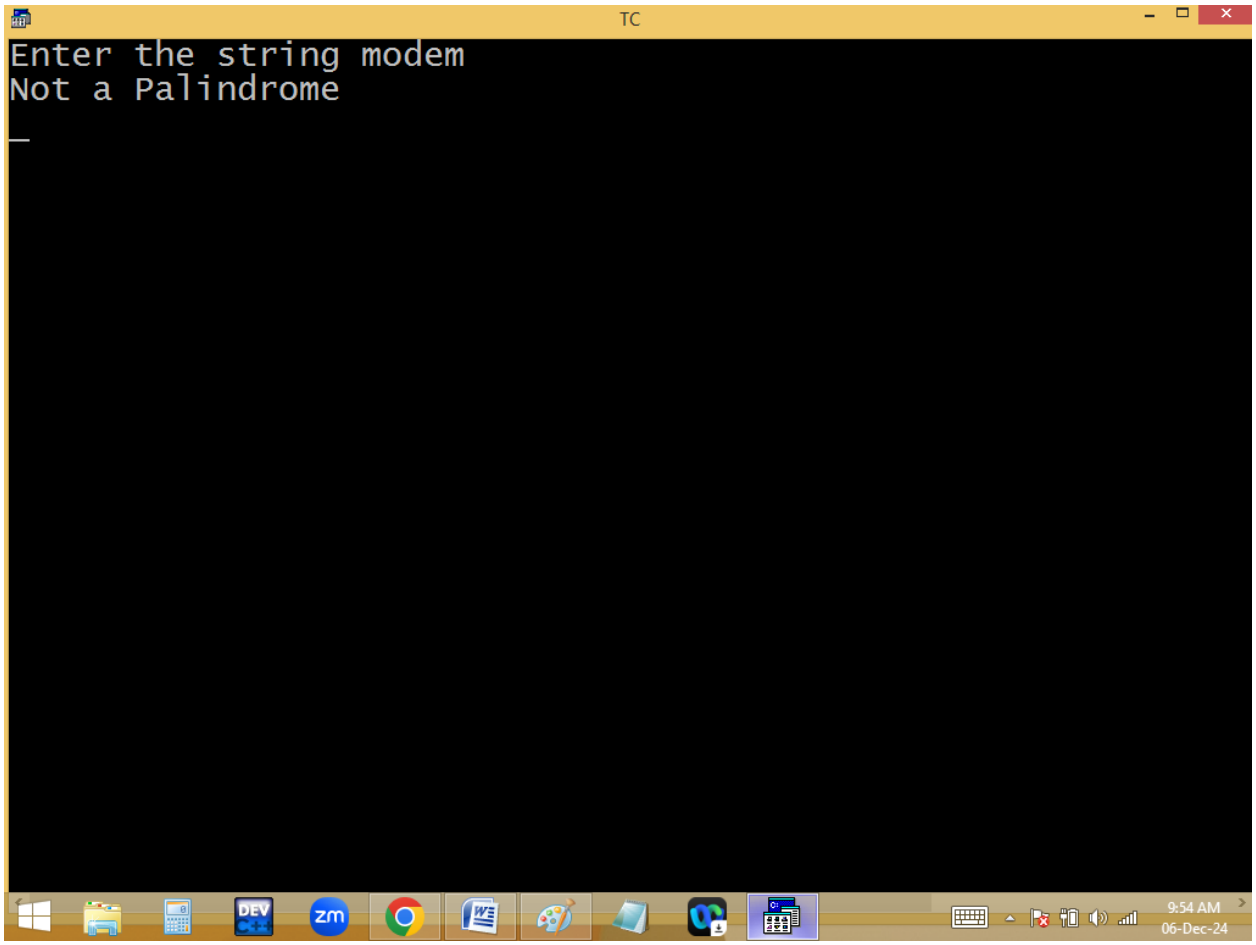


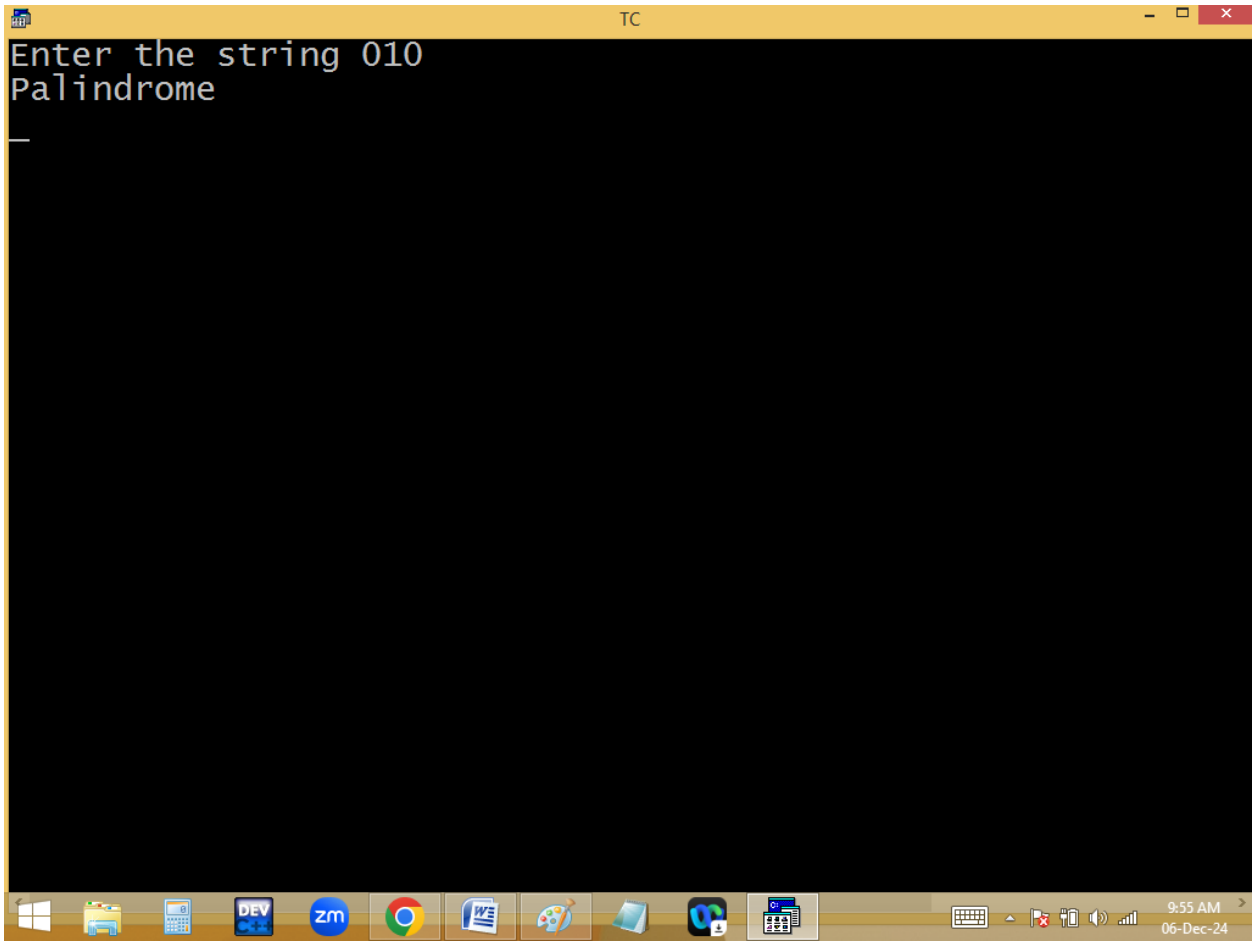
Finding palindrome string or not using single string?

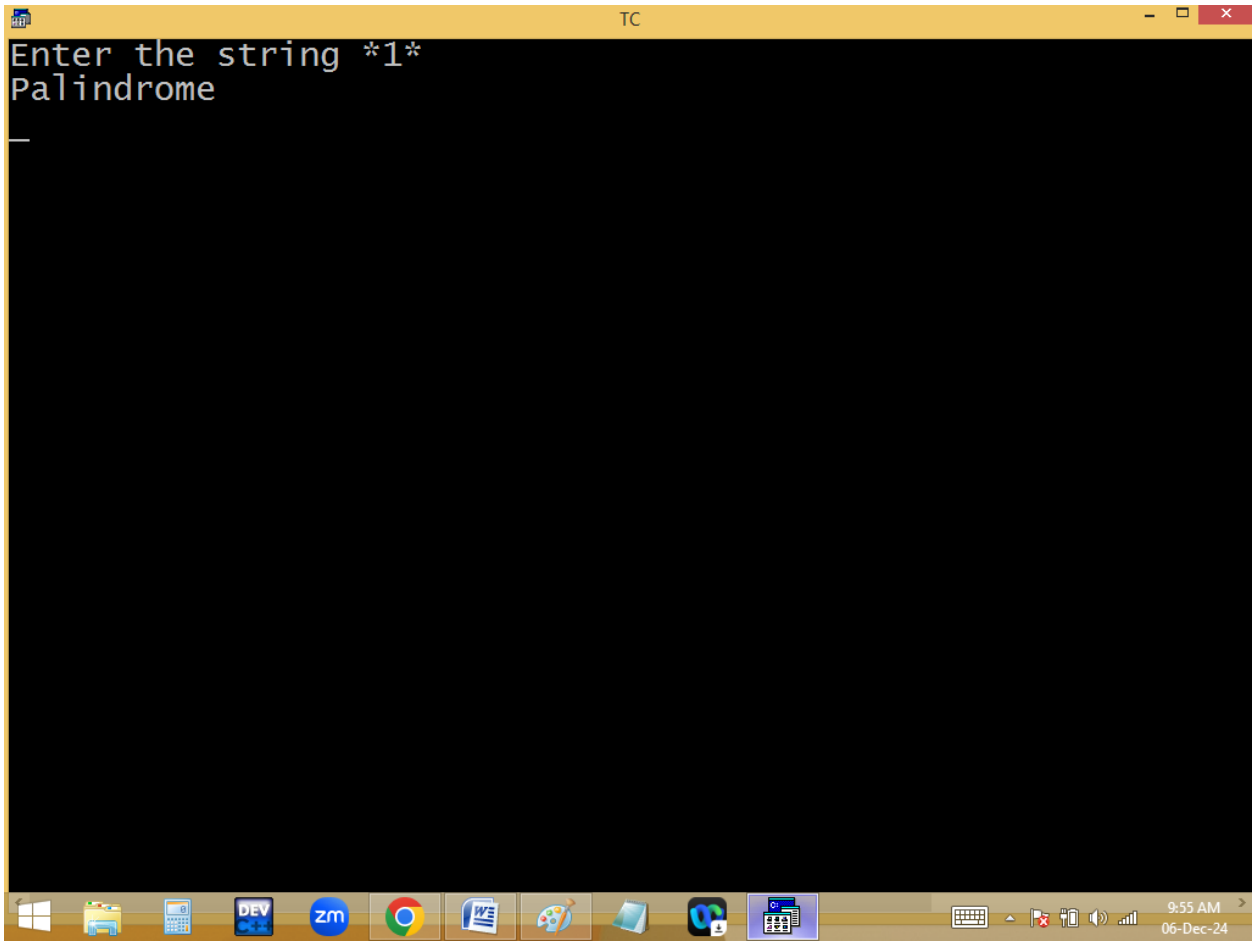
liril, madam, malayalam, ..


TC
File Edit Run Compile Project Options Debug
Line 3 Col 18 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
void main()
{
char s[100]; int i,j;
clrscr();
printf("Enter the string "); scanf("%s",s);
for(i=0;s[i]!='\0';i++); /* strlen */
for(j=0; j<i/2;j++)
{
if(tolower(s[j]) != tolower(s[i-j-1]))
{puts("Not a Palindrome");getch();return;}
}
puts("Palindrome");
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
9:54 AM
06-Dec-24

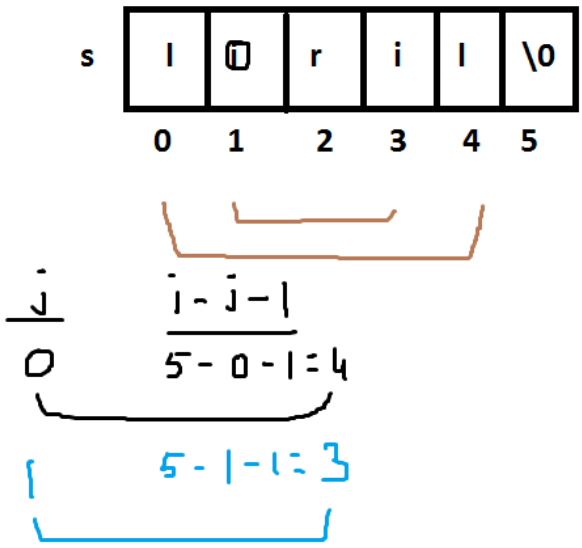

TC
Enter the string Madam
Palindrome
9:54 AM
06-Dec-24


TC
Enter the string modem
Not a Palindrome
9:54 AM
06-Dec-24

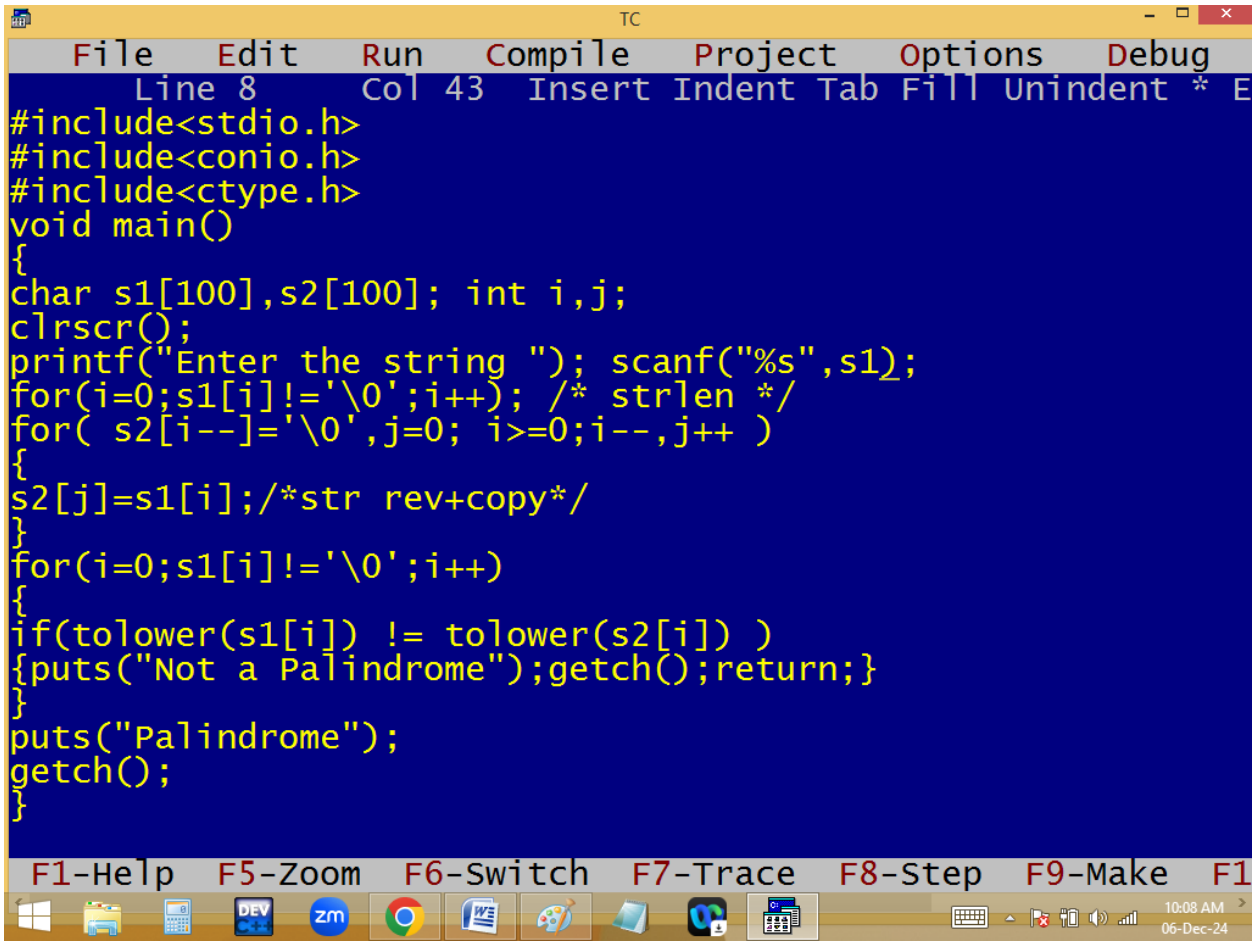

TC
Enter the string 010
Palindrome
9:55 AM
06-Dec-24

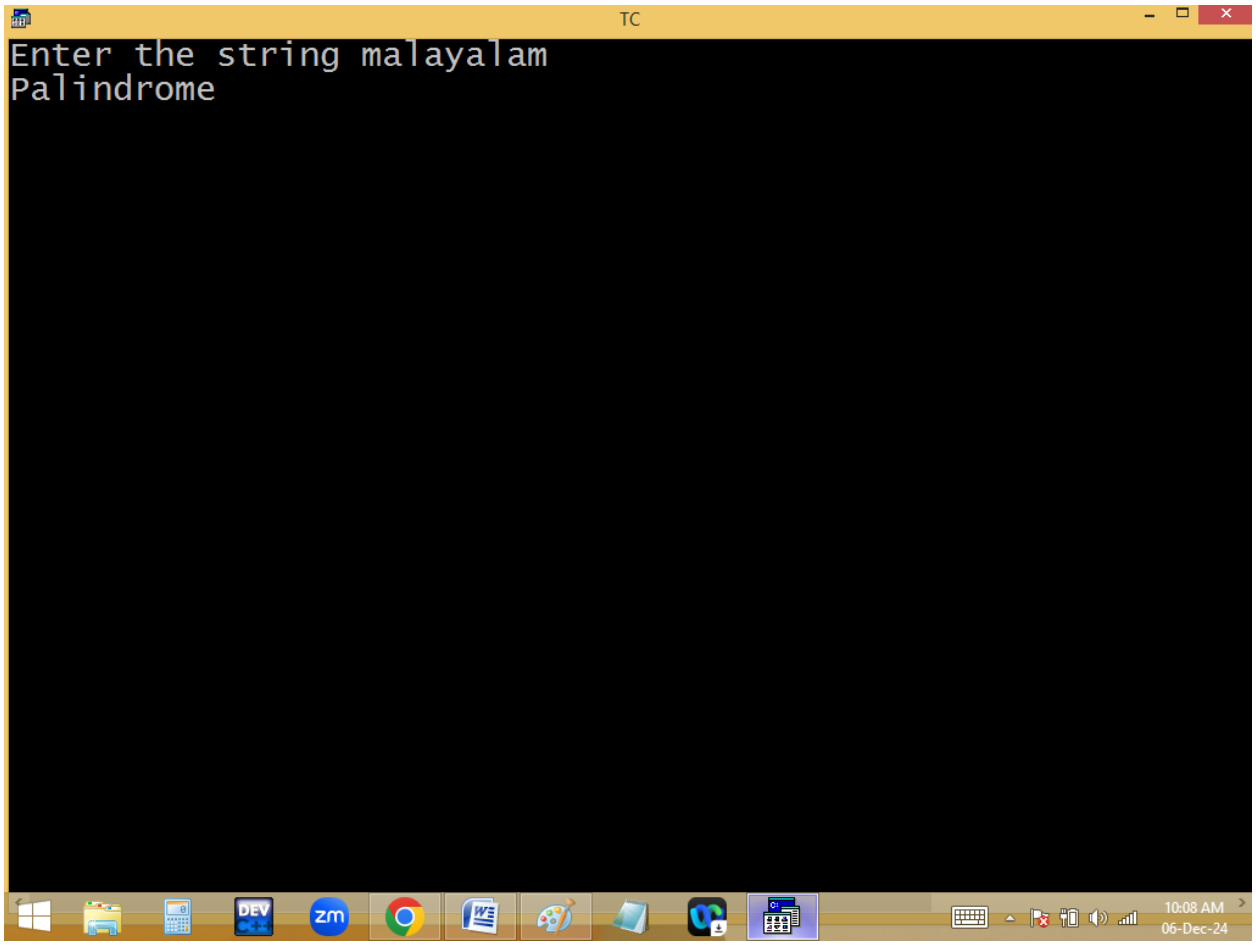


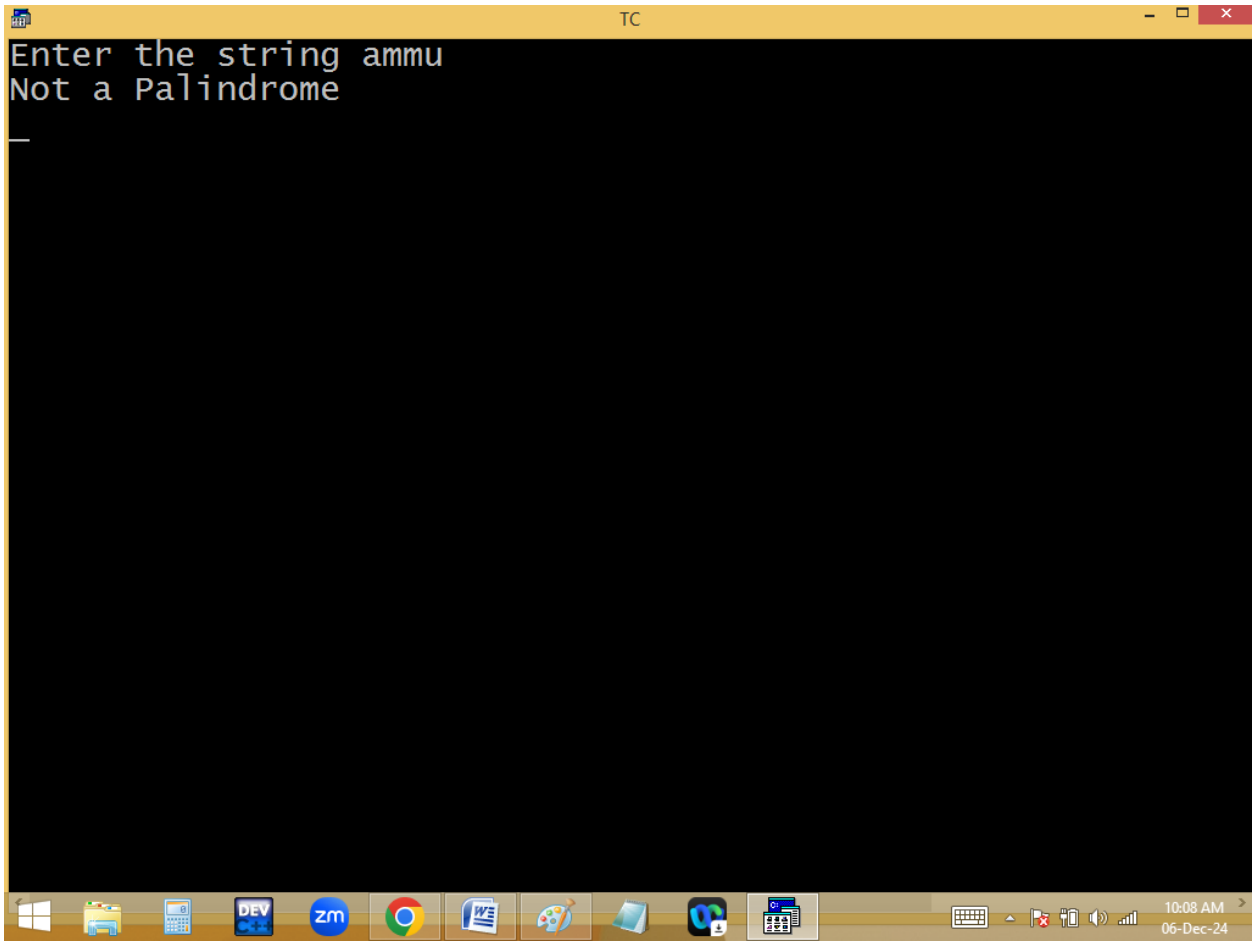

```
for( i=0; s[i]!='\0';i++) ; len=5<==i


for( j=0;j<i/2;j++)
{
if( a[j] != a[i-j-1] ) {puts("Not");return;}

}
puts("Palindrome");
```

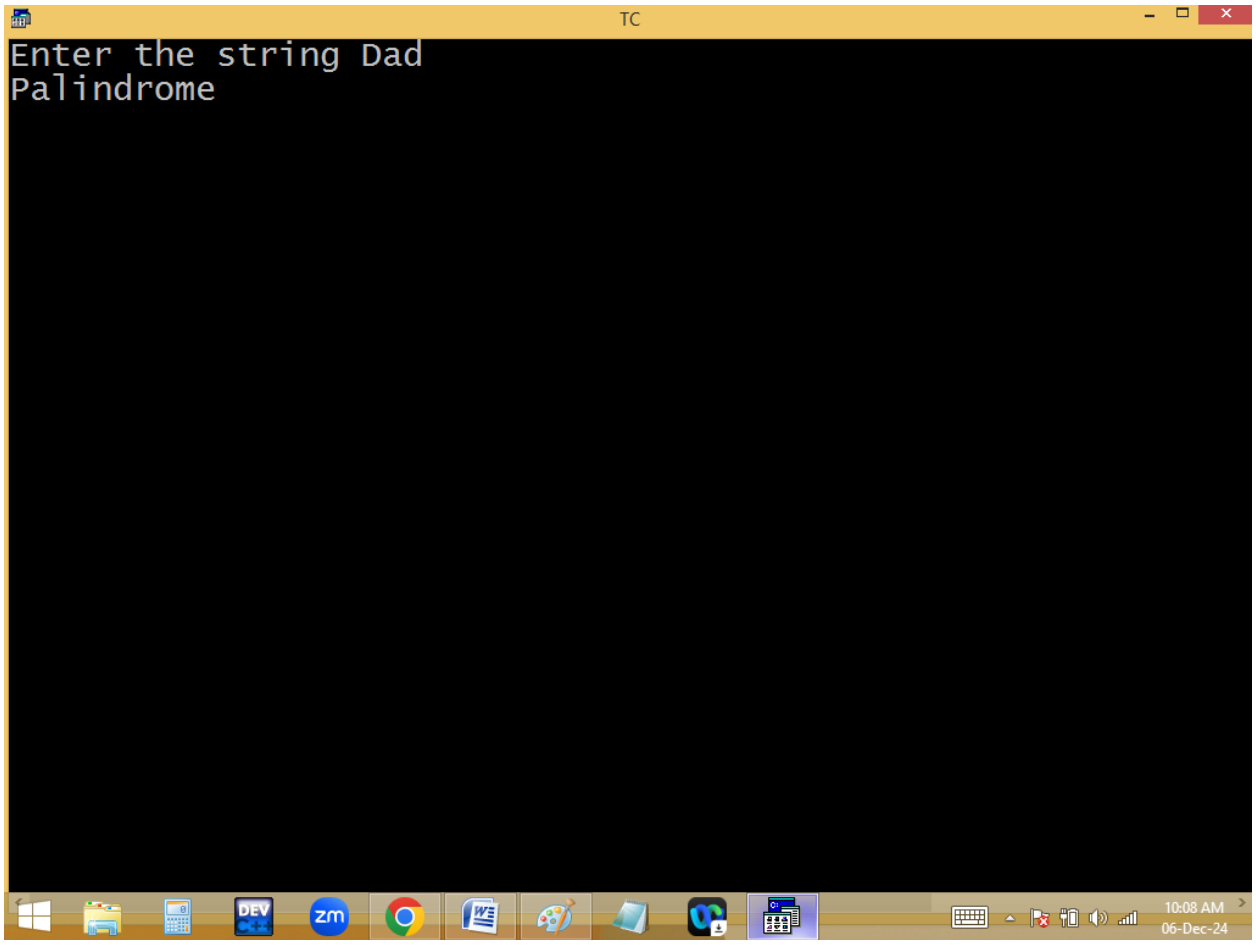


Using 2 strings:


TC
File Edit Run Compile Project Options Debug
Line 8 Col 43 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
void main()
{
char s1[100],s2[100]; int i,j;
clrscr();
printf("Enter the string "); scanf("%s",s1);
for(i=0;s1[i]!='\0';i++); /* strlen */
for(s2[i--]='\0',j=0; i>=0;i--,j++)
{
s2[j]=s1[i];/*str rev+copy*/
}
for(i=0;s1[i]!='\0';i++)
{
if(tolower(s1[i]) != tolower(s2[i]))
{puts("Not a Palindrome");getch();return;}
}
puts("Palindrome");
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:08 AM
06-Dec-24


TC
Enter the string malayalam
Palindrome
10:08 AM
06-Dec-24


TC
Enter the string ammu
Not a Palindrome
10:08 AM
06-Dec-24

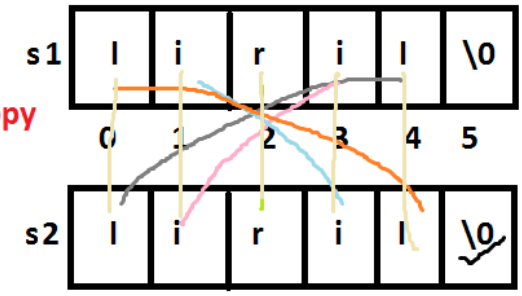


for(i=0; s1[i]!='\0';i++); len=5<==i strlen

for(s2[i--]='\0', j=0;i>=0;i--,j++)s2[j]=s1[i];

5

str rev+copy




```
for( i=0; s1[i]!='\0';i++)
{    strcmp
if(s1[i]!=s2[i])p(Not);return;
}
p(palindrome);
```

s1[i] s2[j]

5

4 → 0

3 → 1

2 → 2

1 → 3

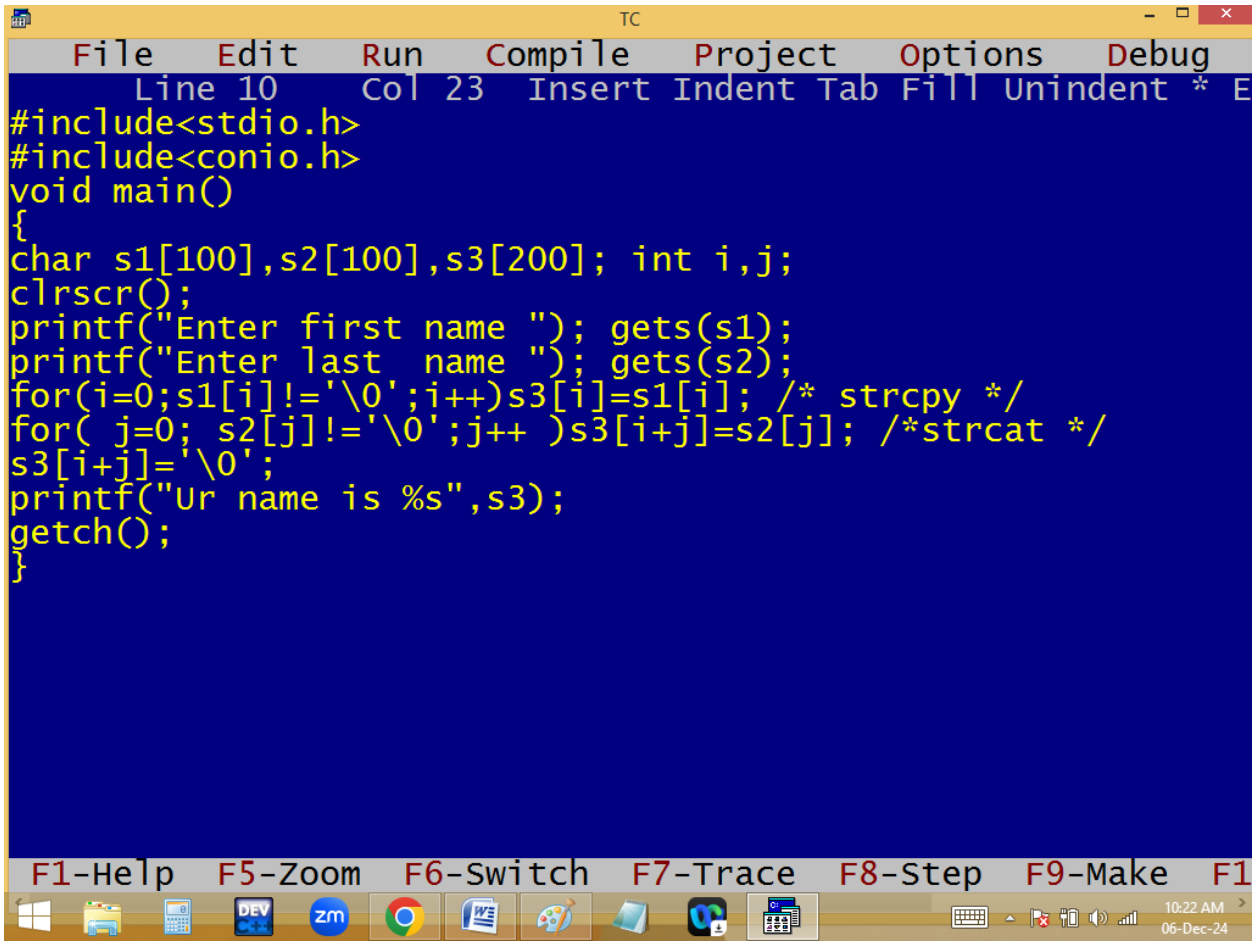
0 → 4

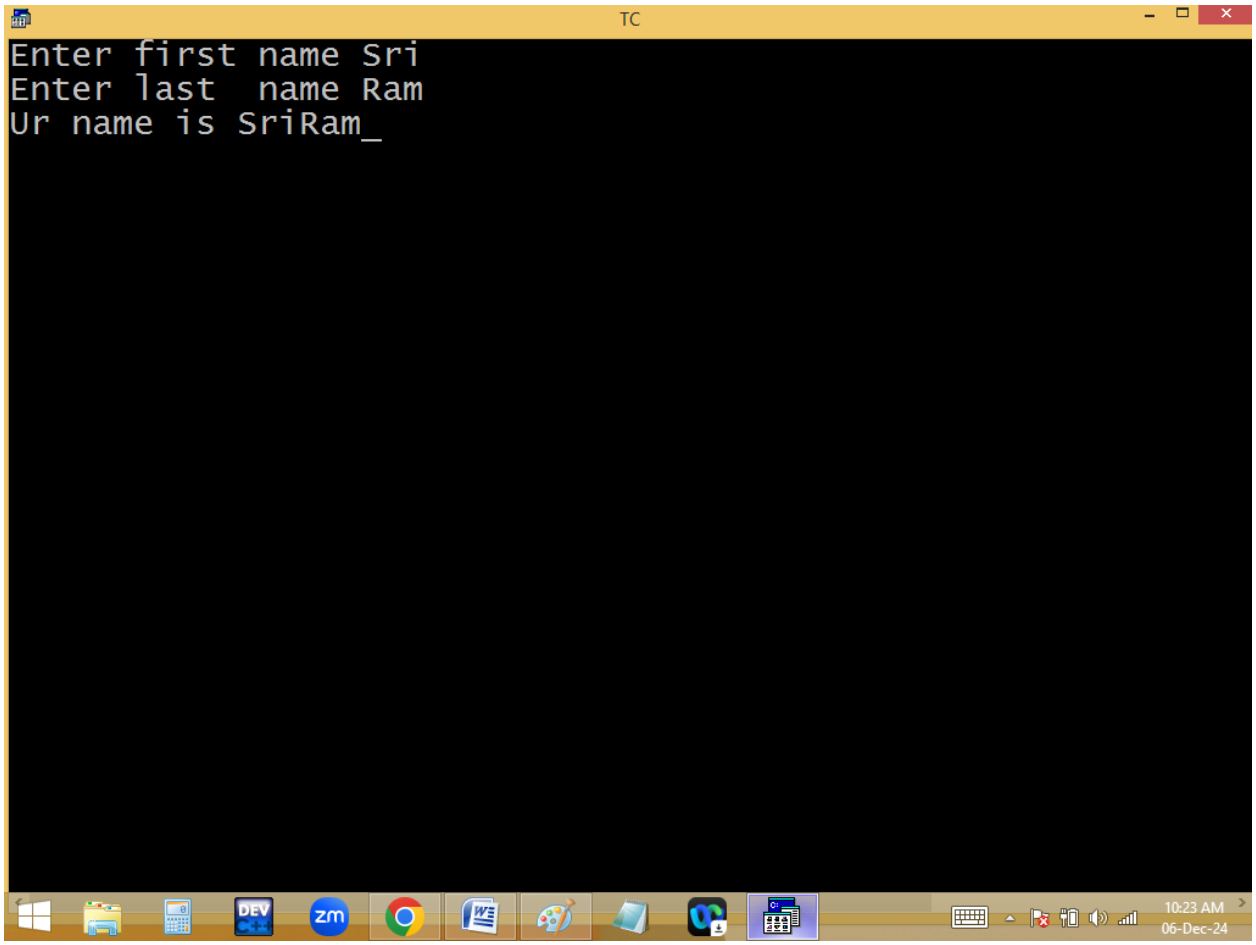
String concatenation:

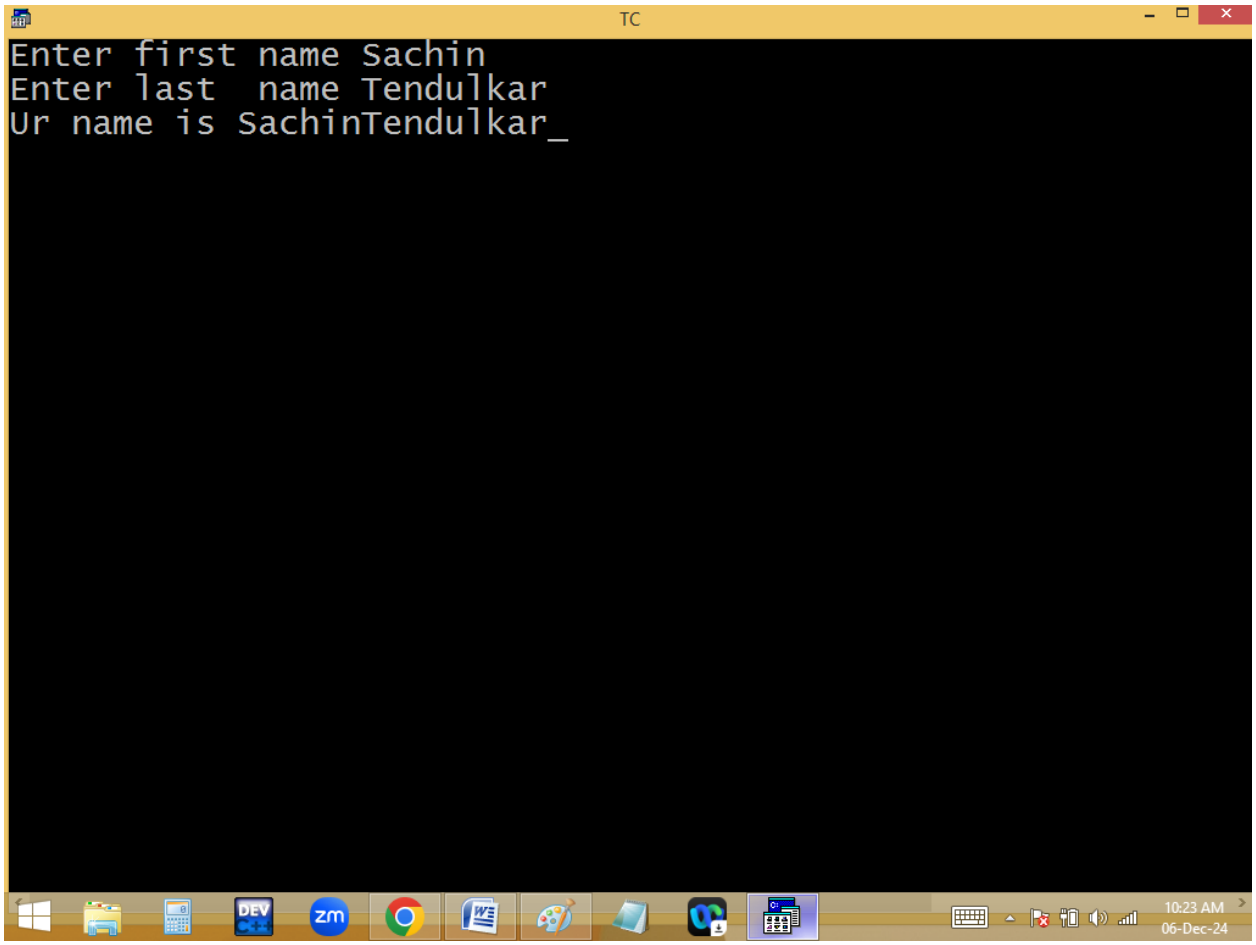
Enter first name: kishore

Enter last name: naidu

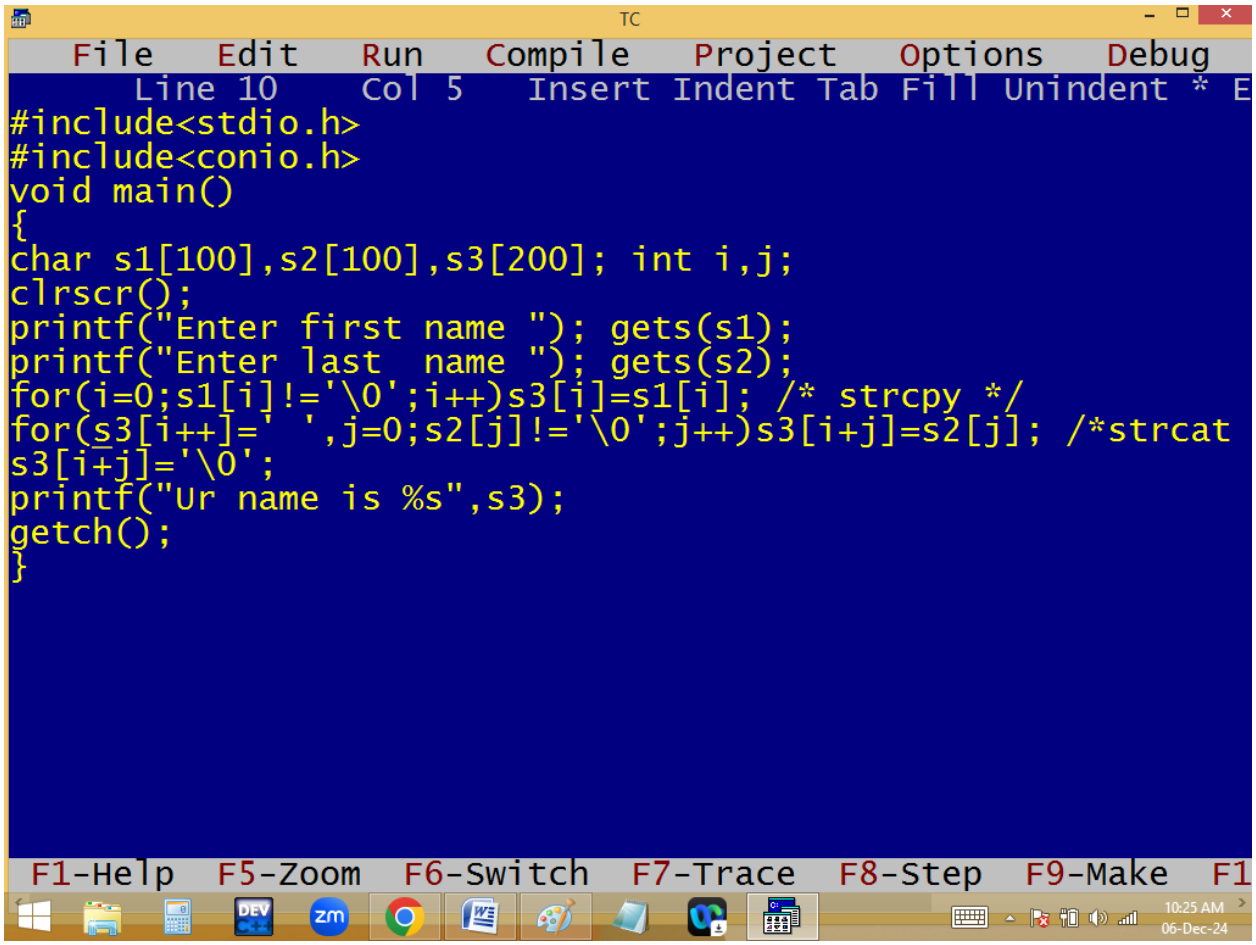
Ur email id is kishorenaidu@gmail.com

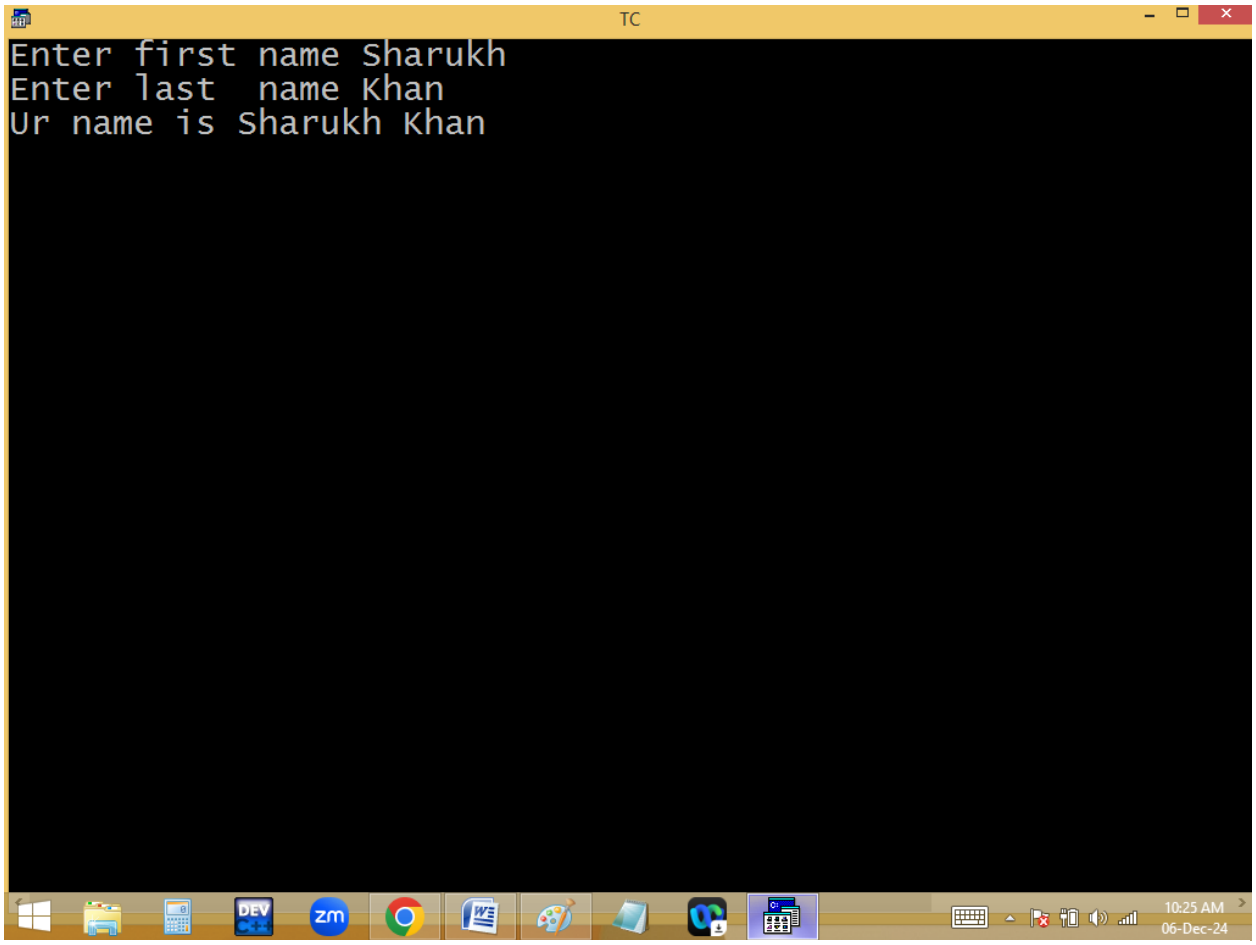

TC
File Edit Run Compile Project Options Debug
Line 10 Col 23 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s1[100],s2[100],s3[200]; int i,j;
clrscr();
printf("Enter first name "); gets(s1);
printf("Enter last name "); gets(s2);
for(i=0;s1[i]!='\0';i++)s3[i]=s1[i]; /* strcpy */
for(j=0; s2[j]!='\0';j++)s3[i+j]=s2[j]; /*strcat */
s3[i+j]='\0';
printf("Ur name is %s",s3);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:22 AM
06-Dec-24

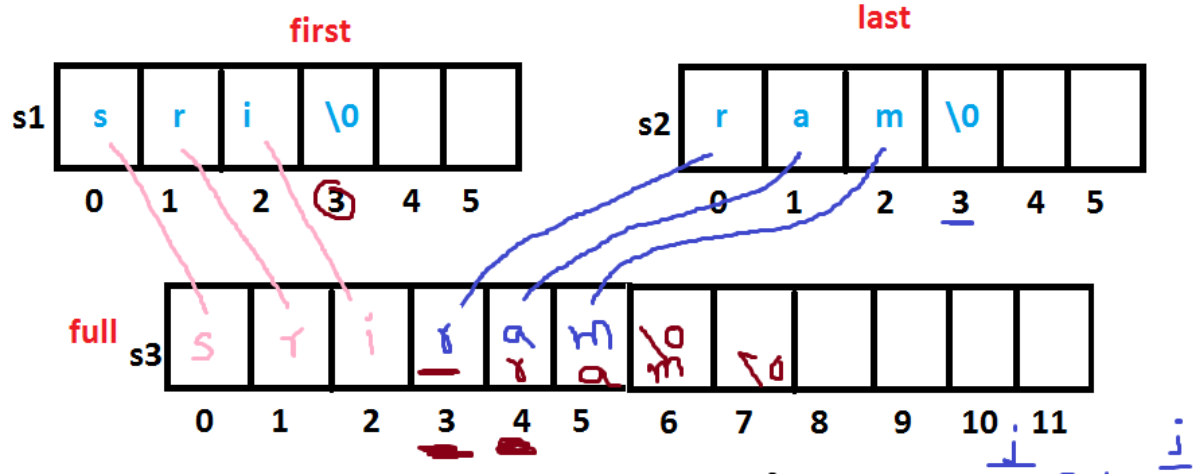

TC
Enter first name Sri
Enter last name Ram
Ur name is SriRam_
10:23 AM
06-Dec-24


TC
Enter first name Sachin
Enter last name Tendulkar
Ur name is SachinTendulkar_
10:23 AM
06-Dec-24

With space:


TC
File Edit Run Compile Project Options Debug
Line 10 Col 5 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
char s1[100],s2[100],s3[200]; int i,j;
clrscr();
printf("Enter first name "); gets(s1);
printf("Enter last name "); gets(s2);
for(i=0;s1[i]!='\0';i++)s3[i]=s1[i]; /* strcpy */
for(s3[i++]=' ',j=0;s2[j]!='\0';j++)s3[i+j]=s2[j]; /*strcat
s3[i+j]='\0';
printf("Ur name is %s",s3);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:25 AM
06-Dec-24





for(i=0; s1[i]!='\0';i++)s3[i]=s1[i]; strcpy

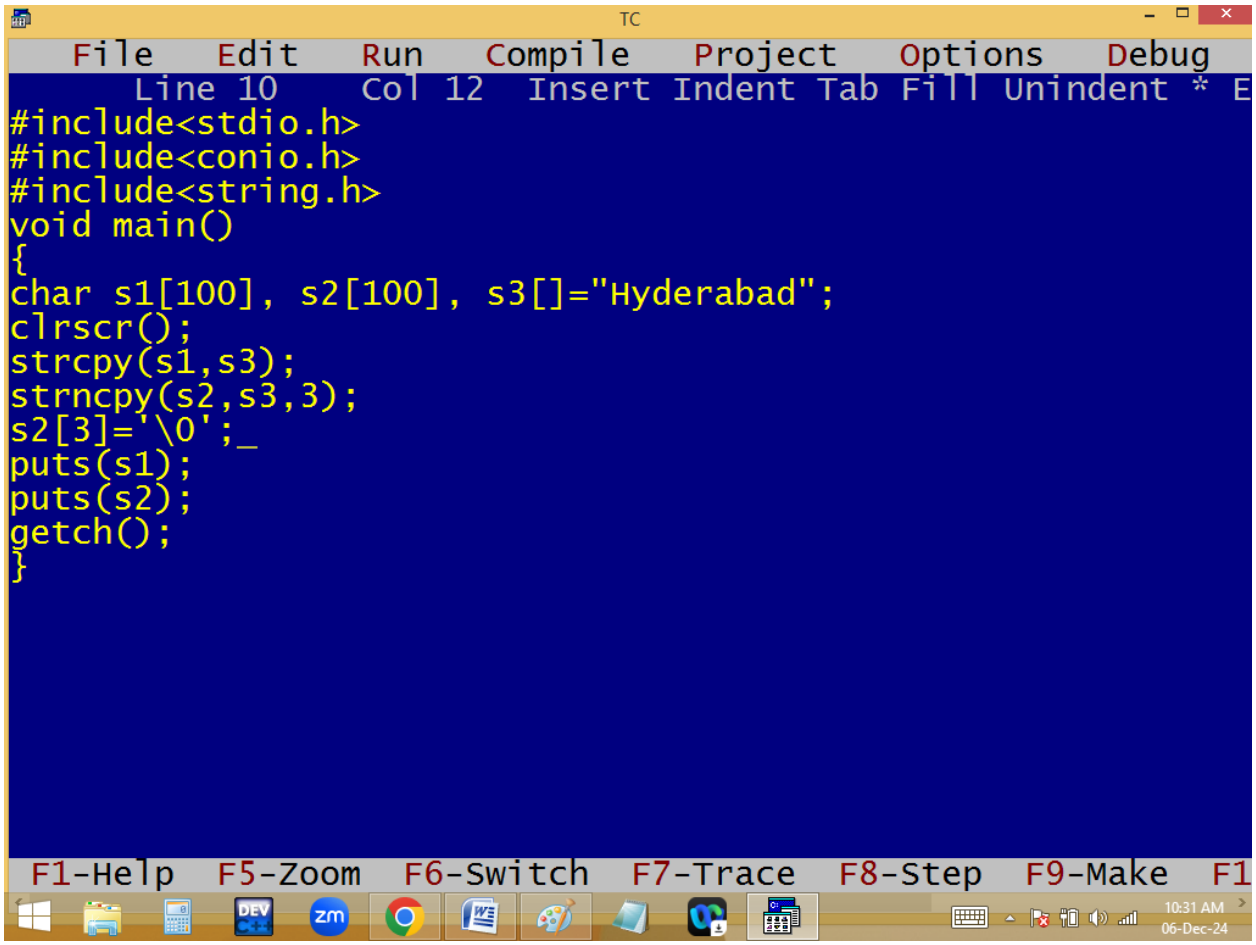
for(j=0;s2[j]!='\0';j++) s3[i+j]=s2[j];

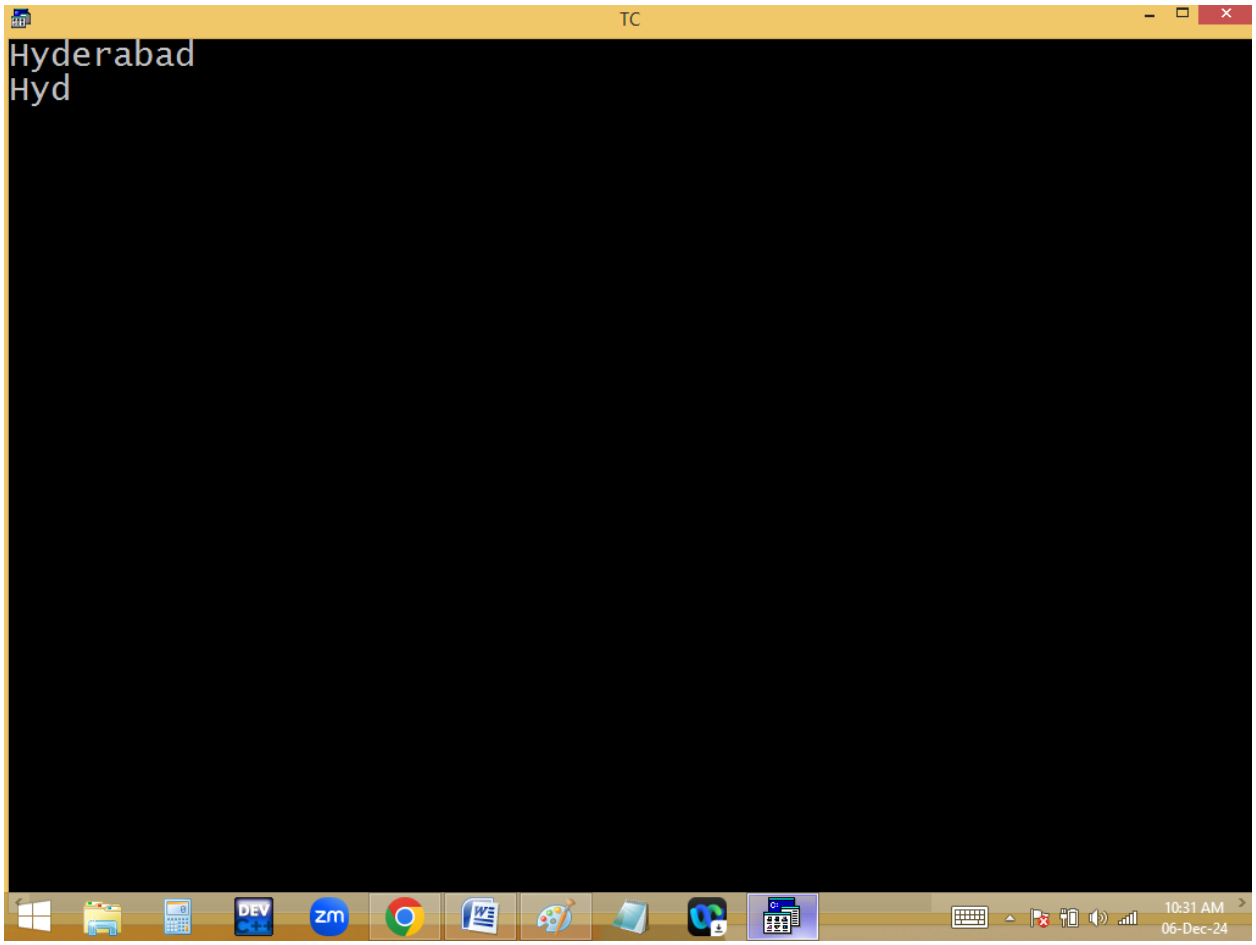
s3[i+j]='\0';

i : 0 1 2 3 + 0 = 3 ← 0
3 + 1 = 4 ← 1
3 + 2 = 5 ← 2
3 + 3 = 6 = '\0'

strcpy(): It copies the source string into destination string.

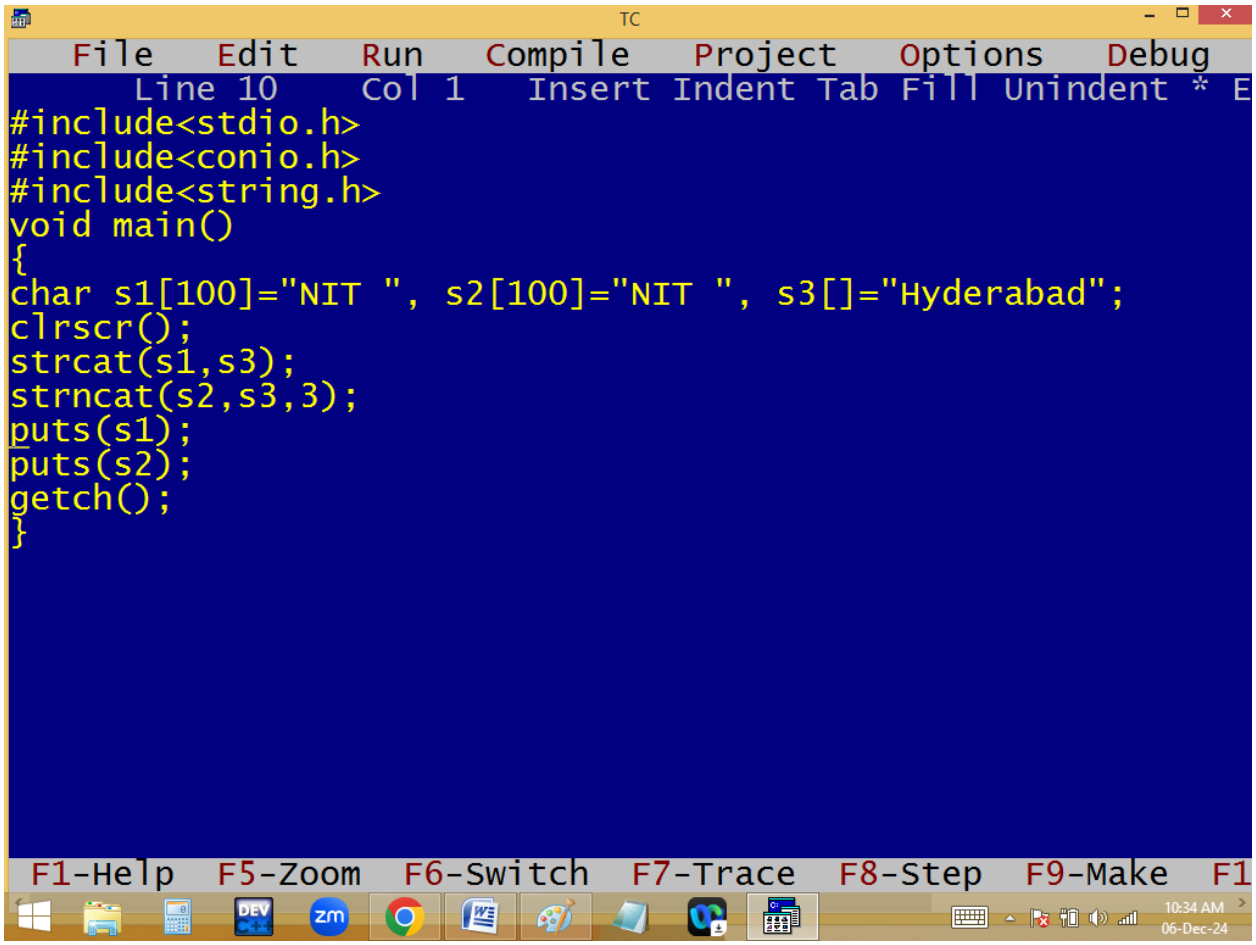
Strncpy():it copies specified no of char into destination string.

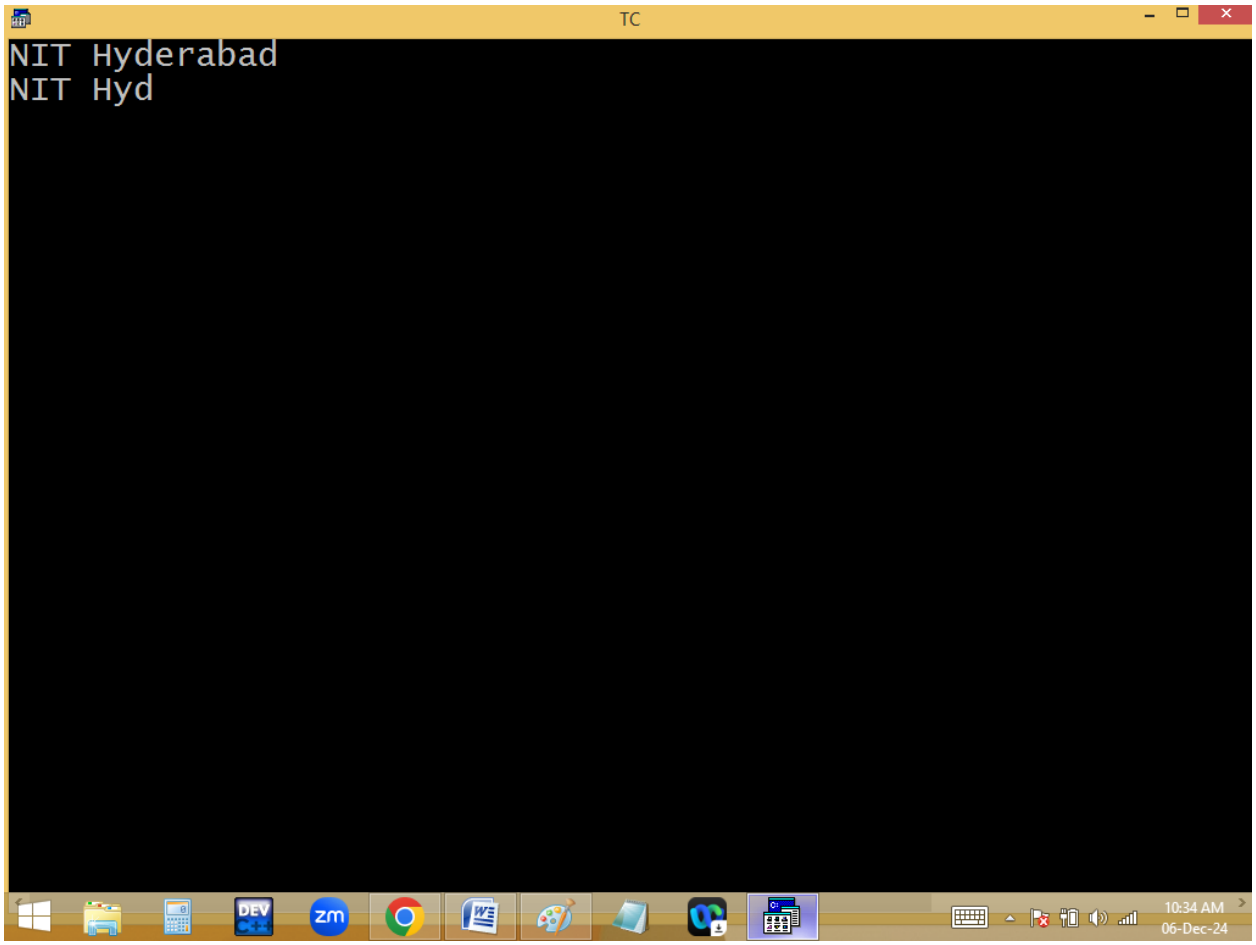

TC
File Edit Run Compile Project Options Debug
Line 10 Col 12 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s1[100], s2[100], s3[]="Hyderabad";
clrscr();
strcpy(s1,s3);
strncpy(s2,s3,3);
s2[3]='\0';_
puts(s1);
puts(s2);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:31 AM
06-Dec-24



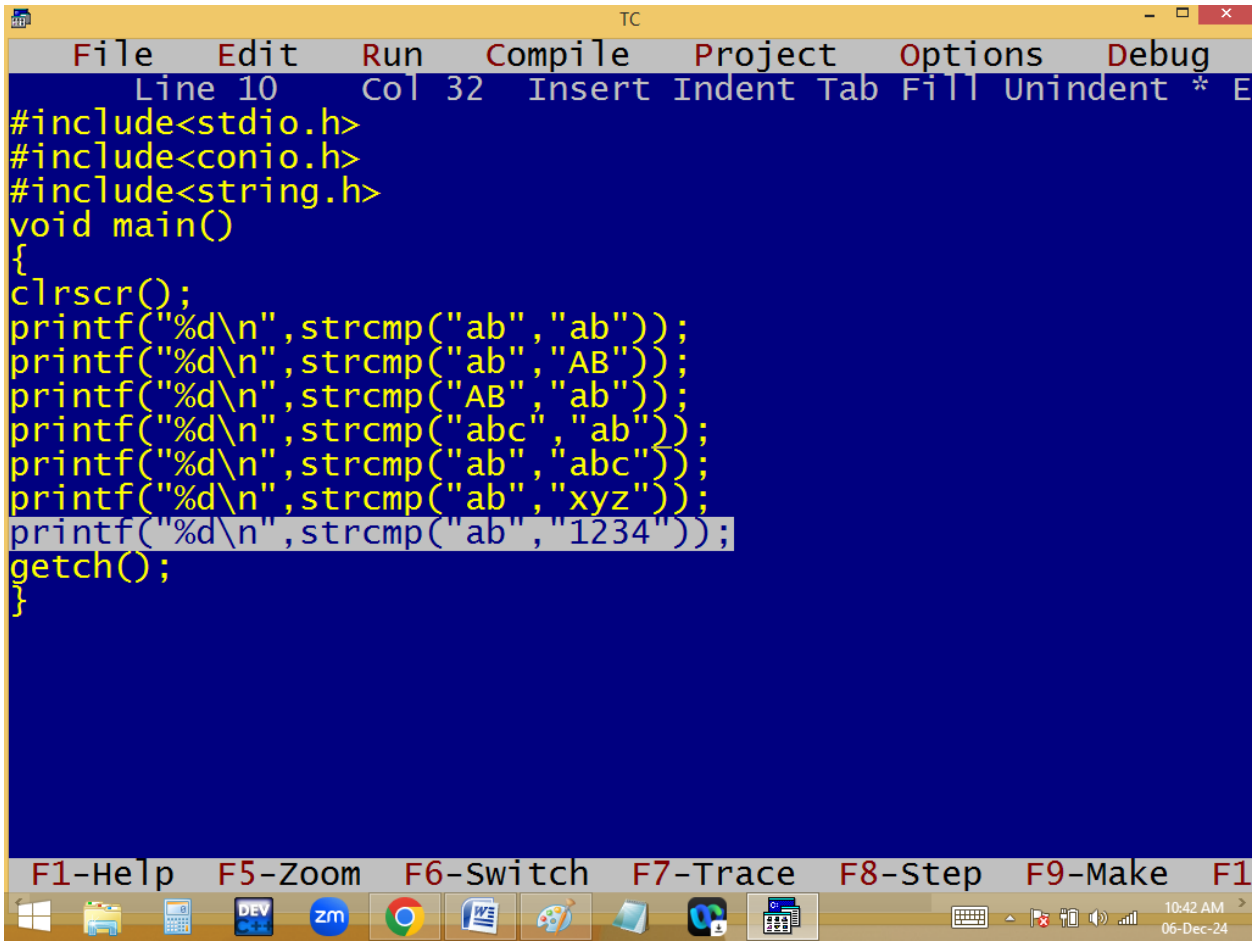
Strcat(): It adds string2 with string1

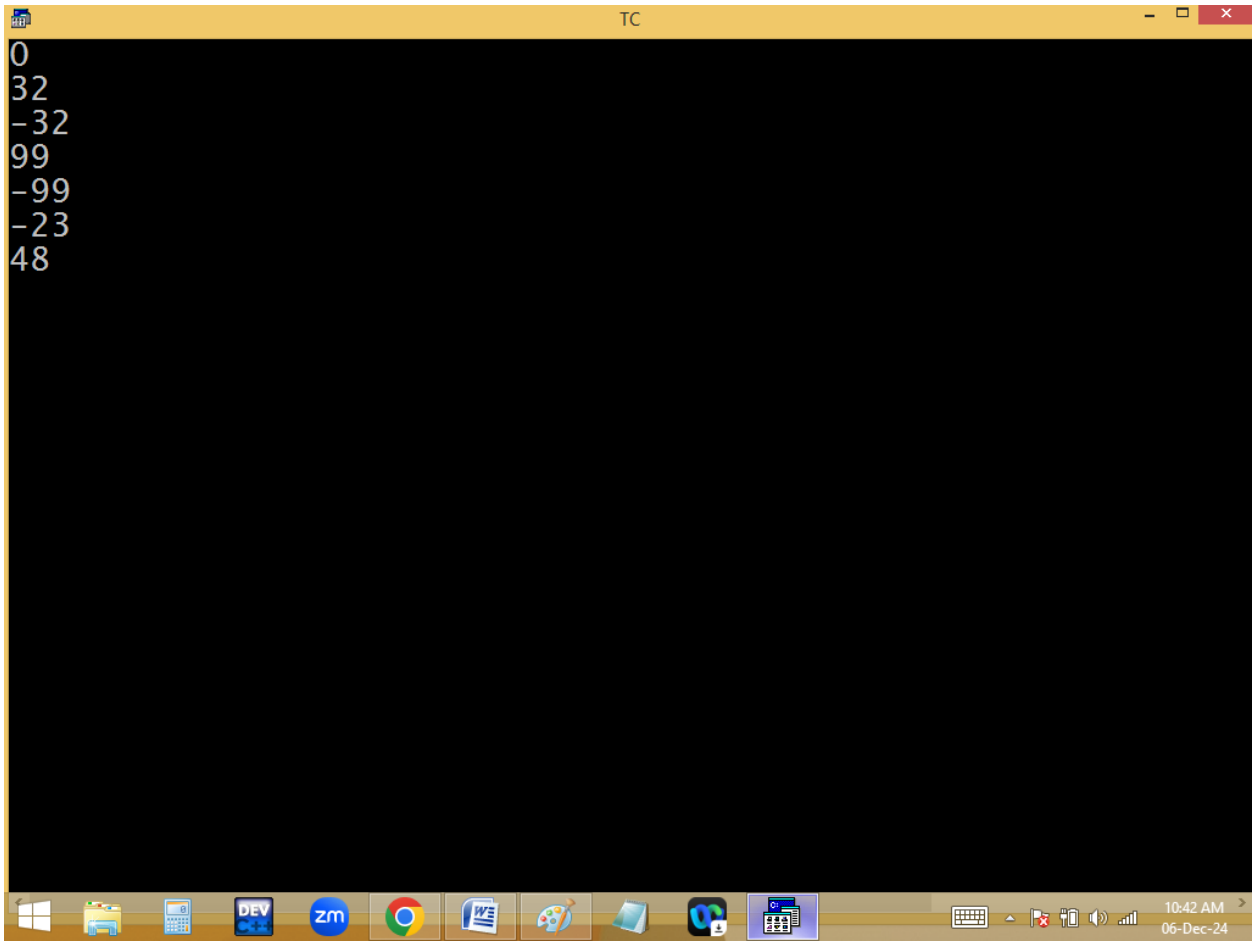
Strncat(): It adds specified no of char's to string1.


TC
File Edit Run Compile Project Options Debug
Line 10 Col 1 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s1[100]="NIT ", s2[100]="NIT ", s3[]="Hyderabad";
clrscr();
strcat(s1,s3);
strncat(s2,s3,3);
puts(s1);
puts(s2);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:34 AM
06-Dec-24



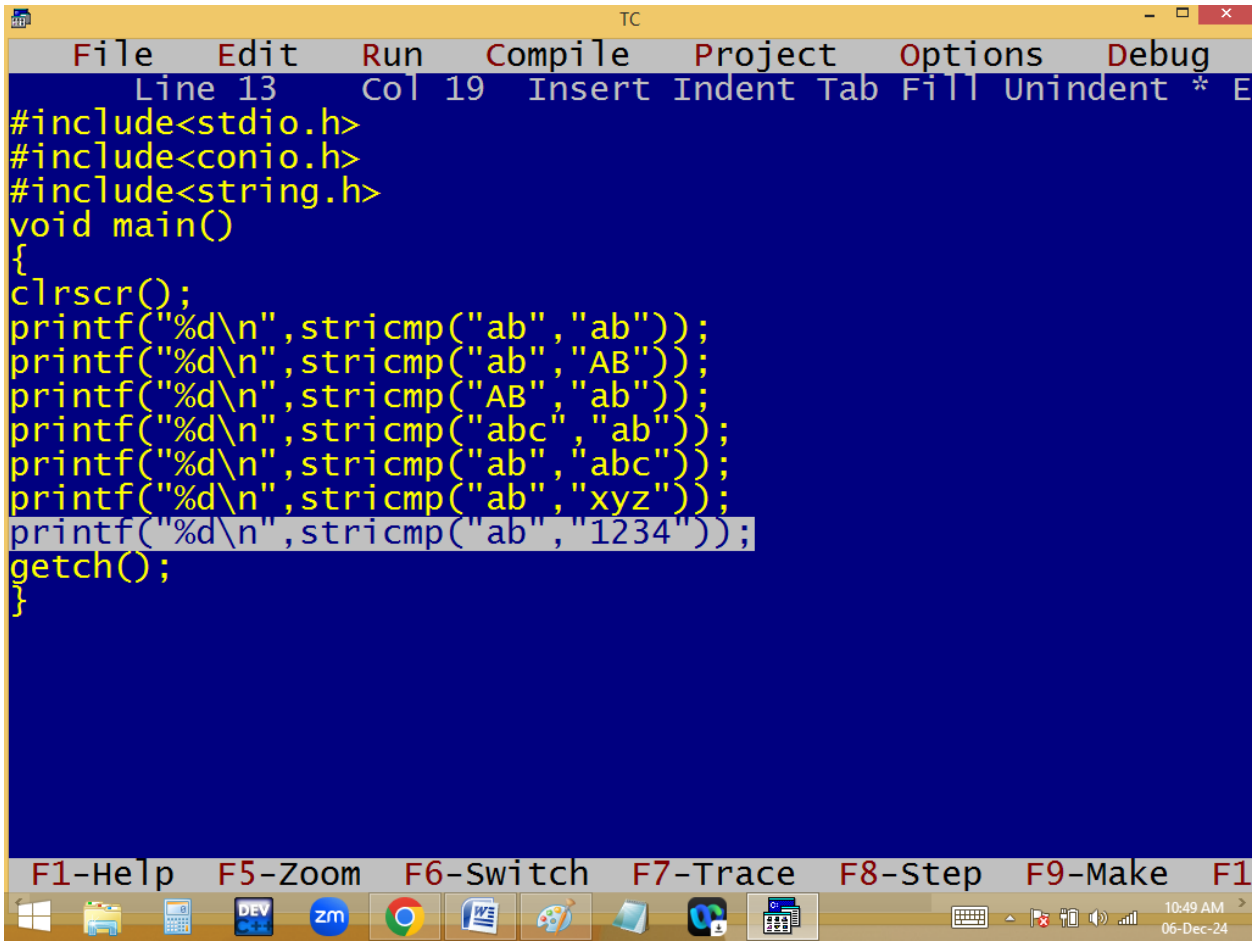
strcmp(): It compare two strings and return the ascii difference. When first is difference is found, the remaining string is not checked.

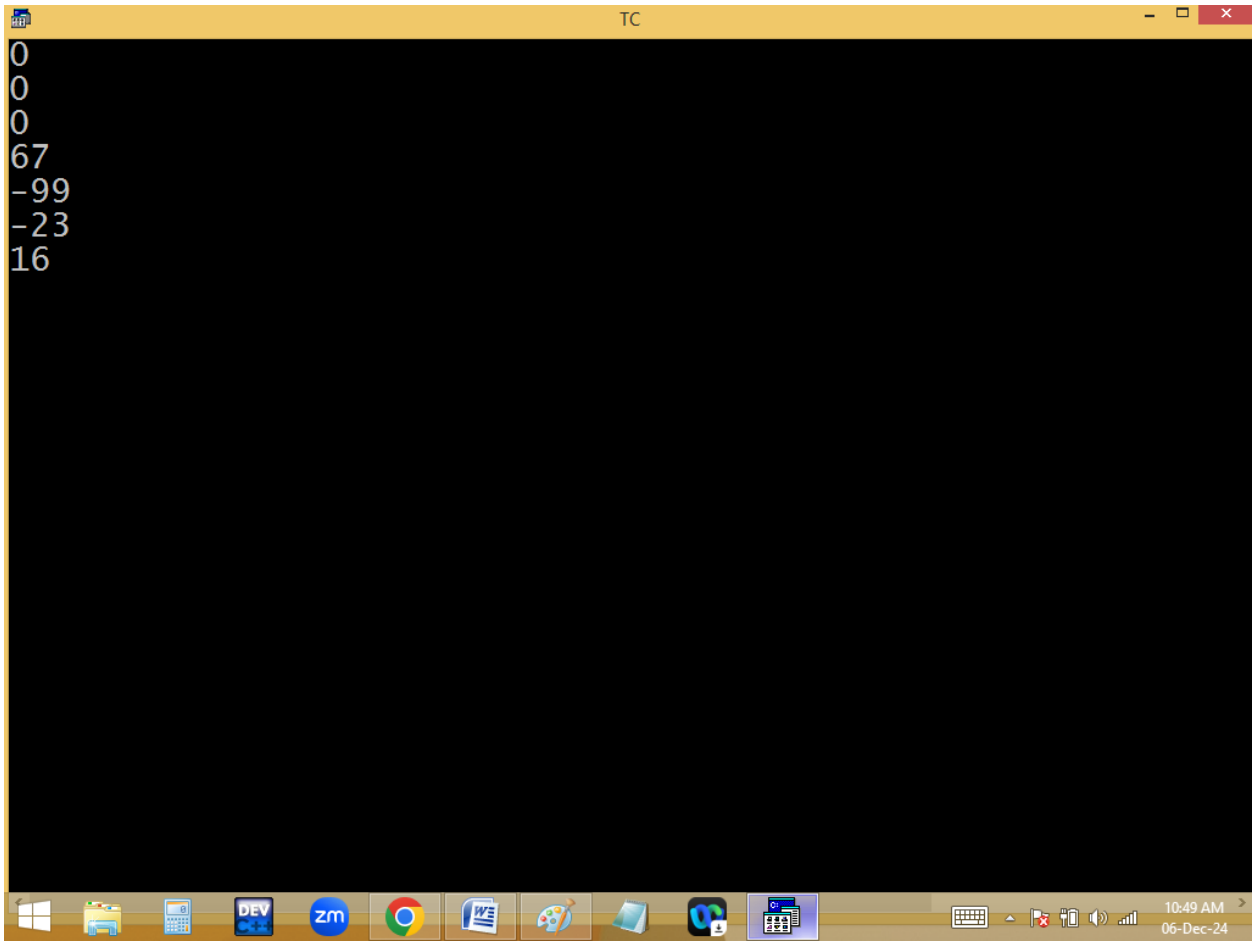

TC
File Edit Run Compile Project Options Debug
Line 10 Col 32 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
clrscr();
printf("%d\n",strcmp("ab","ab"));
printf("%d\n",strcmp("ab","AB"));
printf("%d\n",strcmp("AB","ab"));
printf("%d\n",strcmp("abc","ab"));
printf("%d\n",strcmp("ab","abc"));
printf("%d\n",strcmp("ab","xyz"));
printf("%d\n",strcmp("ab","1234"));
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:42 AM
06-Dec-24



stricmp():

in stricmp(), I means ignore case i.e. lower and upper are same. When matching char not found or different data type found in 2nd string, the first string char taken in upper case.


TC
File Edit Run Compile Project Options Debug
Line 13 Col 19 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
clrscr();
printf("%d\n",stricmp("ab","ab"));
printf("%d\n",stricmp("ab","AB"));
printf("%d\n",stricmp("AB","ab"));
printf("%d\n",stricmp("abc","ab"));
printf("%d\n",stricmp("ab","abc"));
printf("%d\n",stricmp("ab","xyz"));
printf("%d\n",stricmp("ab","1234"));
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F1
10:49 AM
06-Dec-24


TC
0
0
0
67
-99
-23
16
10:49 AM
06-Dec-24