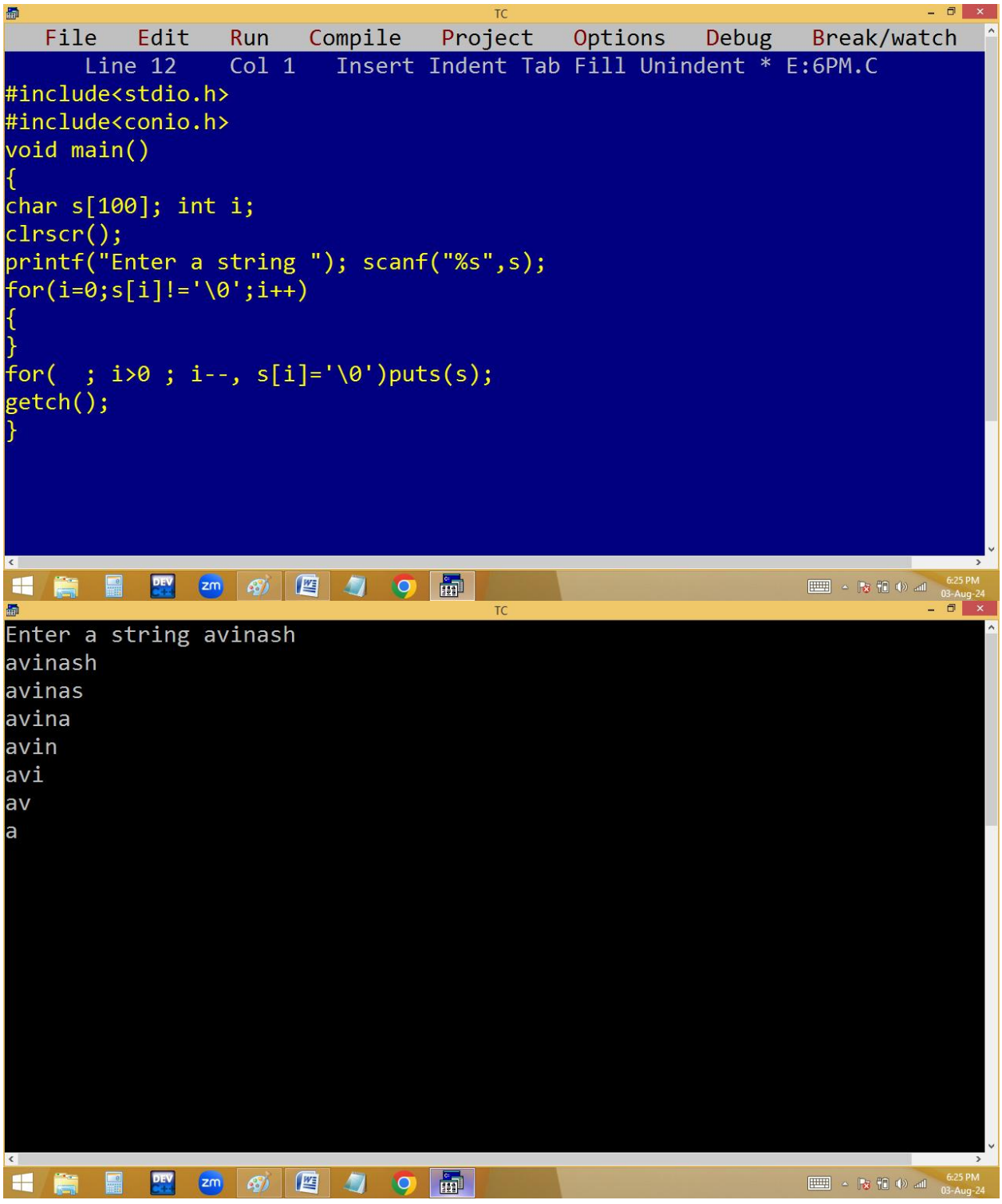

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 1 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i;
clrscr();
printf("Enter a string "); scanf("%s",s);
for(i=0;s[i]!='\0';i++)
{
}
for(; i>0 ; i--, s[i]='\0')puts(s);
getch();
}
6:25 PM
03-Aug-24
TC
Enter a string avinash
avinash
avinas
avina
avin
avi
av
a
6:25 PM
03-Aug-24

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

i: 0 1 2 3 4

	65500	501	2	3	504
s	a	\0 b	\0 c	\0 d	\0
	0	1	2	3	4

```
for( ; i>0 ; i--, s[i]='\0') puts(s);
```

i

0 to 4 → a b c d

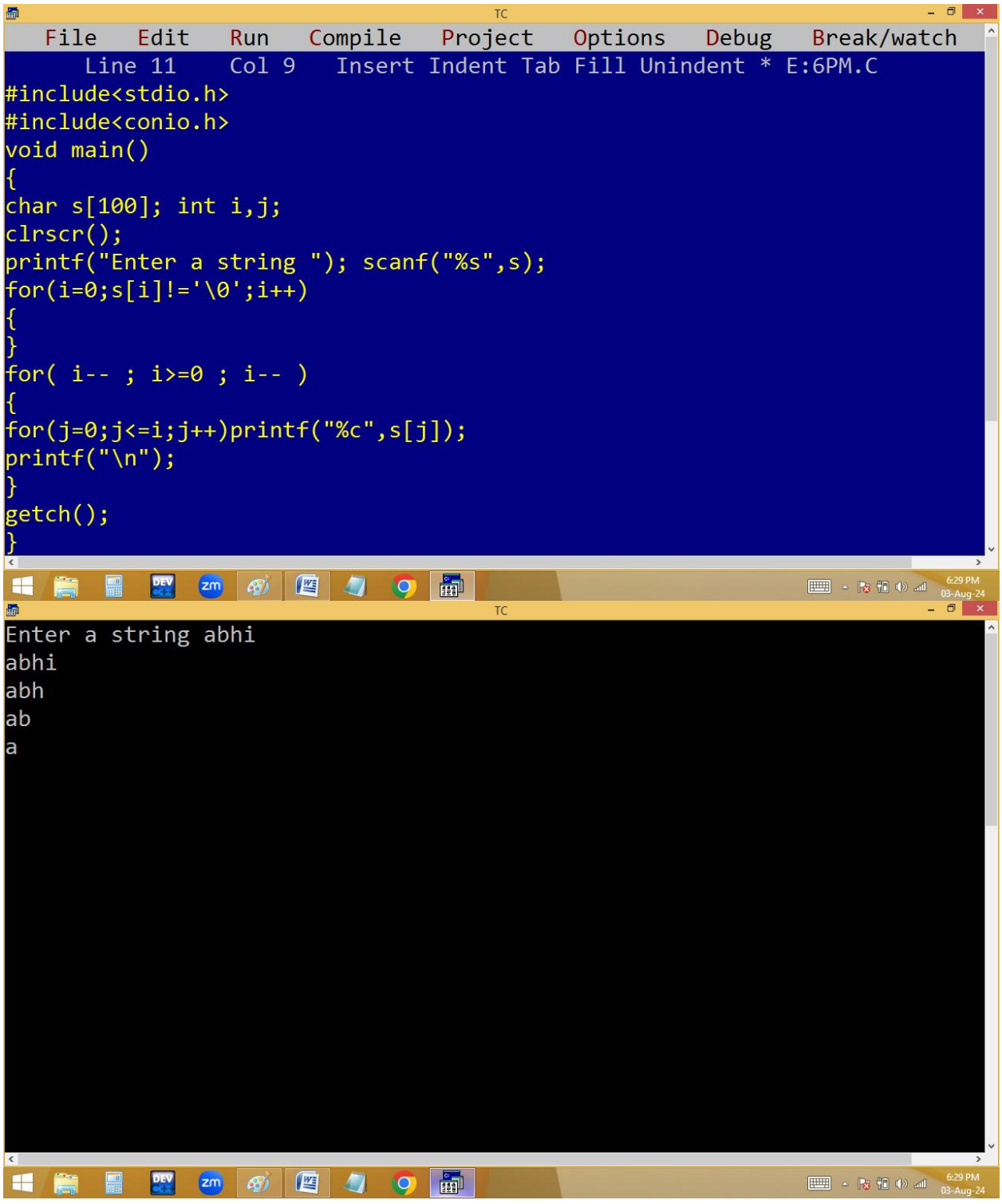
0 to 3 → a b c

0 to 2 → a b

0 to 1 → a

0

Method2:


TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 9 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i,j;
clrscr();
printf("Enter a string "); scanf("%s",s);
for(i=0;s[i]!='\0';i++)
{
}
for(i-- ; i>=0 ; i--)
{
for(j=0;j<=i;j++)printf("%c",s[j]);
printf("\n");
}
getch();
}
TC
Enter a string abhi
abhi
abh
ab
a

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

i: 0 1 2 3 4

	65500	501	2	3	504
s	a	\0 b	\0 c	\0 d	\0
	0	1	2	3	4

```
for( ; i>=0; i-- )
{
for ( j=0; j<=i;j++) p("%c",s[ j ]);
p("\n");
}
```

j, i

0 to 4 → a b c d

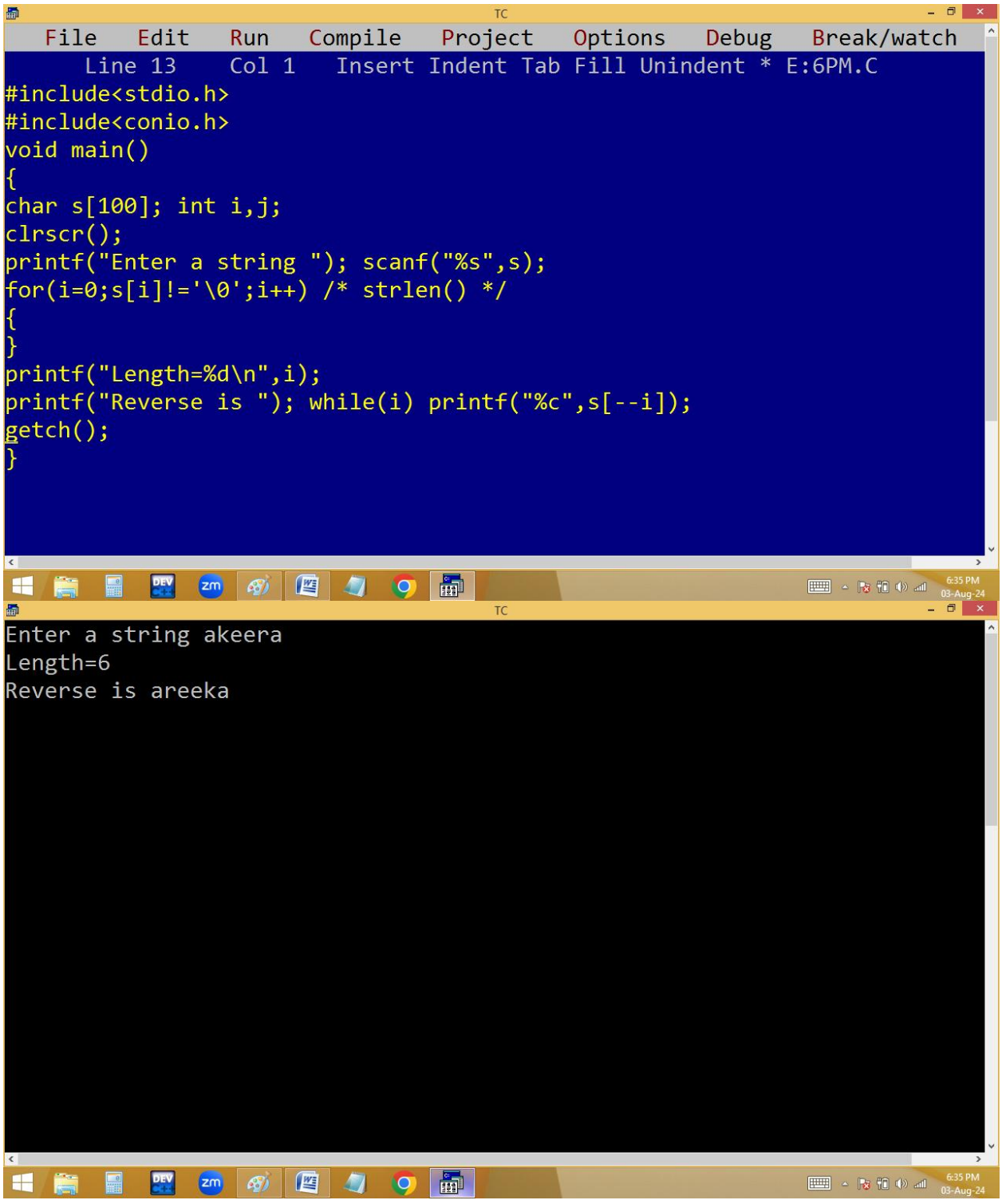
0 to 3 → a b c

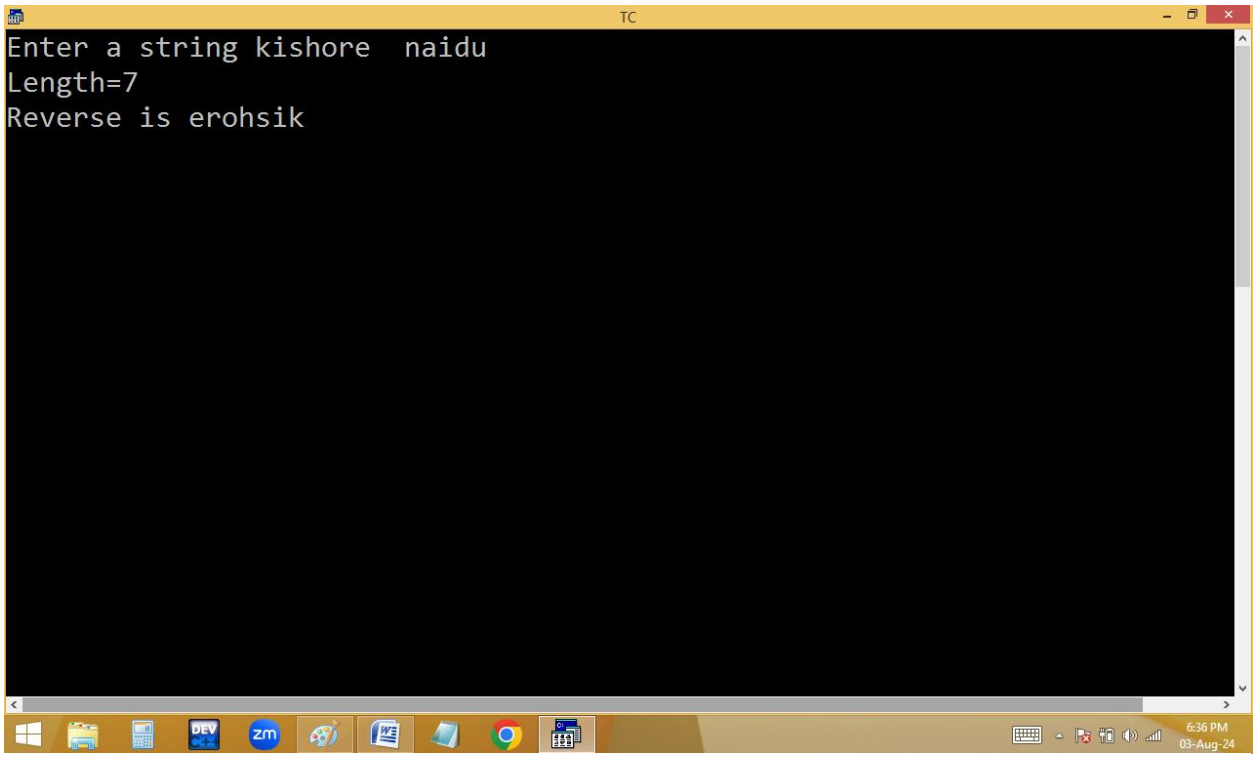
0 to 2 → a b

0 to 1 → a

0

Finding string length and reverse string using user defined program:


TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 1 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i,j;
clrscr();
printf("Enter a string "); scanf("%s",s);
for(i=0;s[i]!='\0';i++) /* strlen() */
{
}
printf("Length=%d\n",i);
printf("Reverse is "); while(i) printf("%c",s[--i]);
getch();
}
6:35 PM
03-Aug-24
TC
Enter a string akeera
Length=6
Reverse is areeka
6:35 PM
03-Aug-24



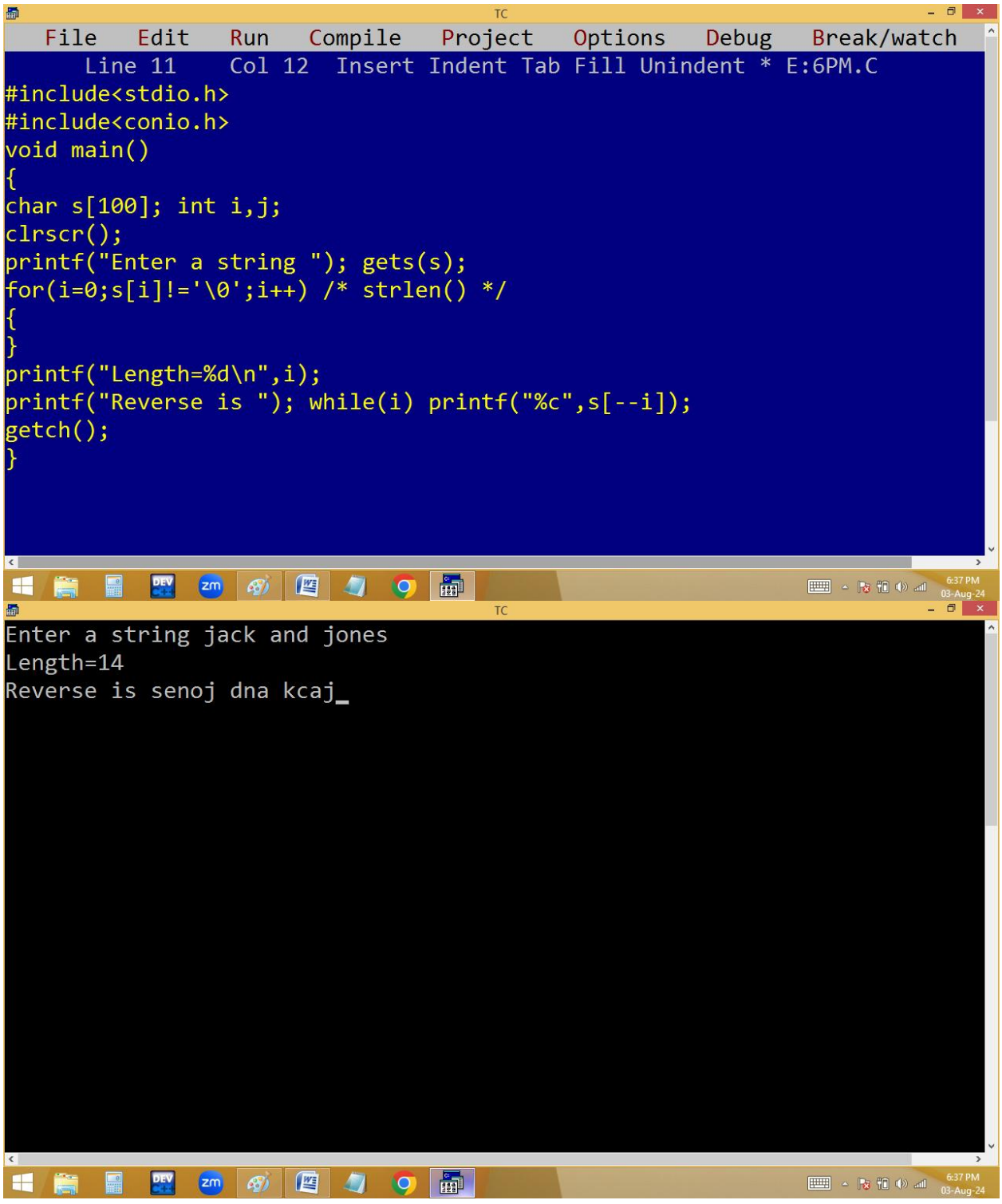

```
for(i=0;s[i]!='\0';i++)
{   strlen()
}

p("Length=%d\n",i);

while( i ) p("%c",s[--i]);  strrev()
```

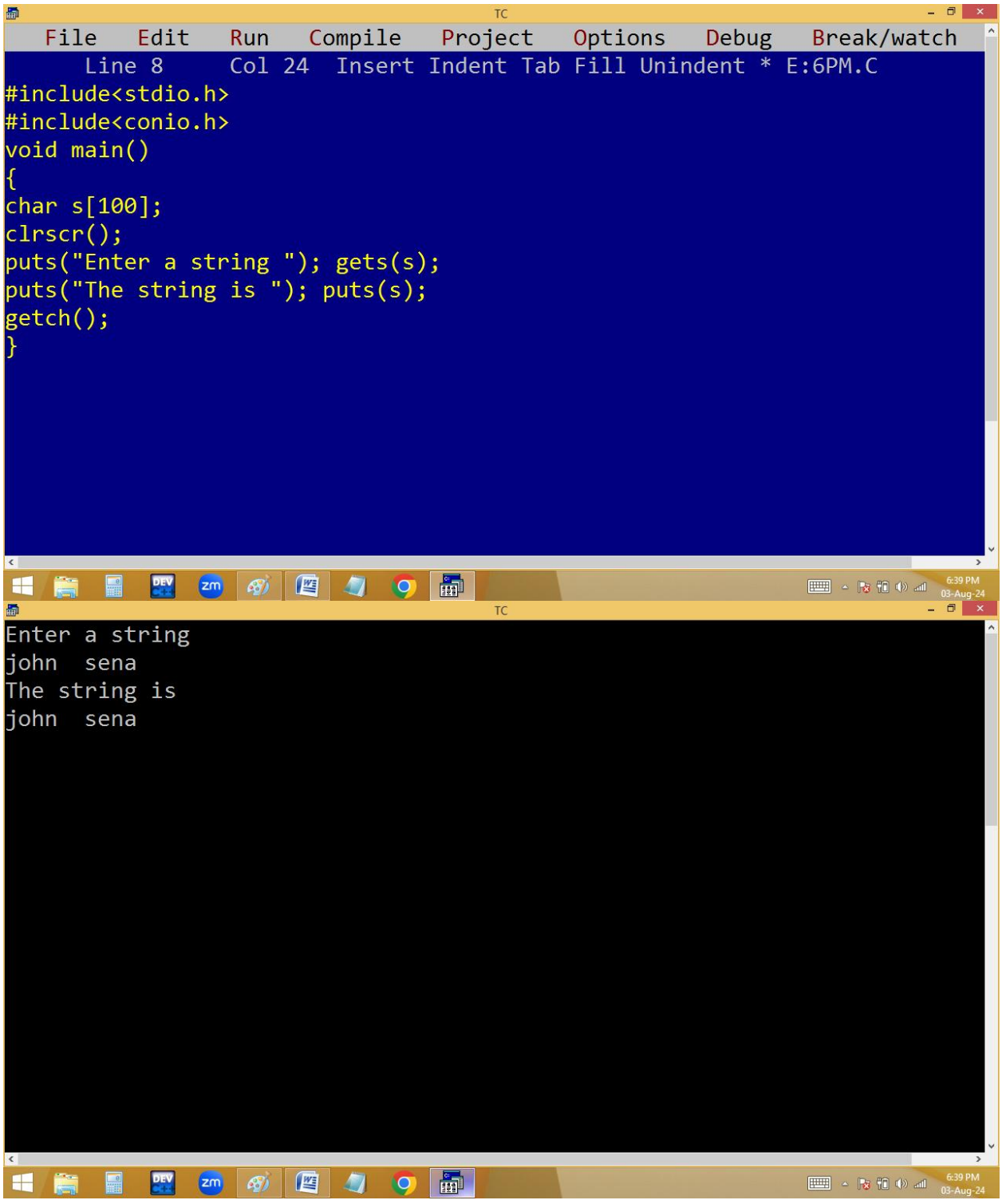
i: 0 1 2 3 4 ✓
a b c d \0

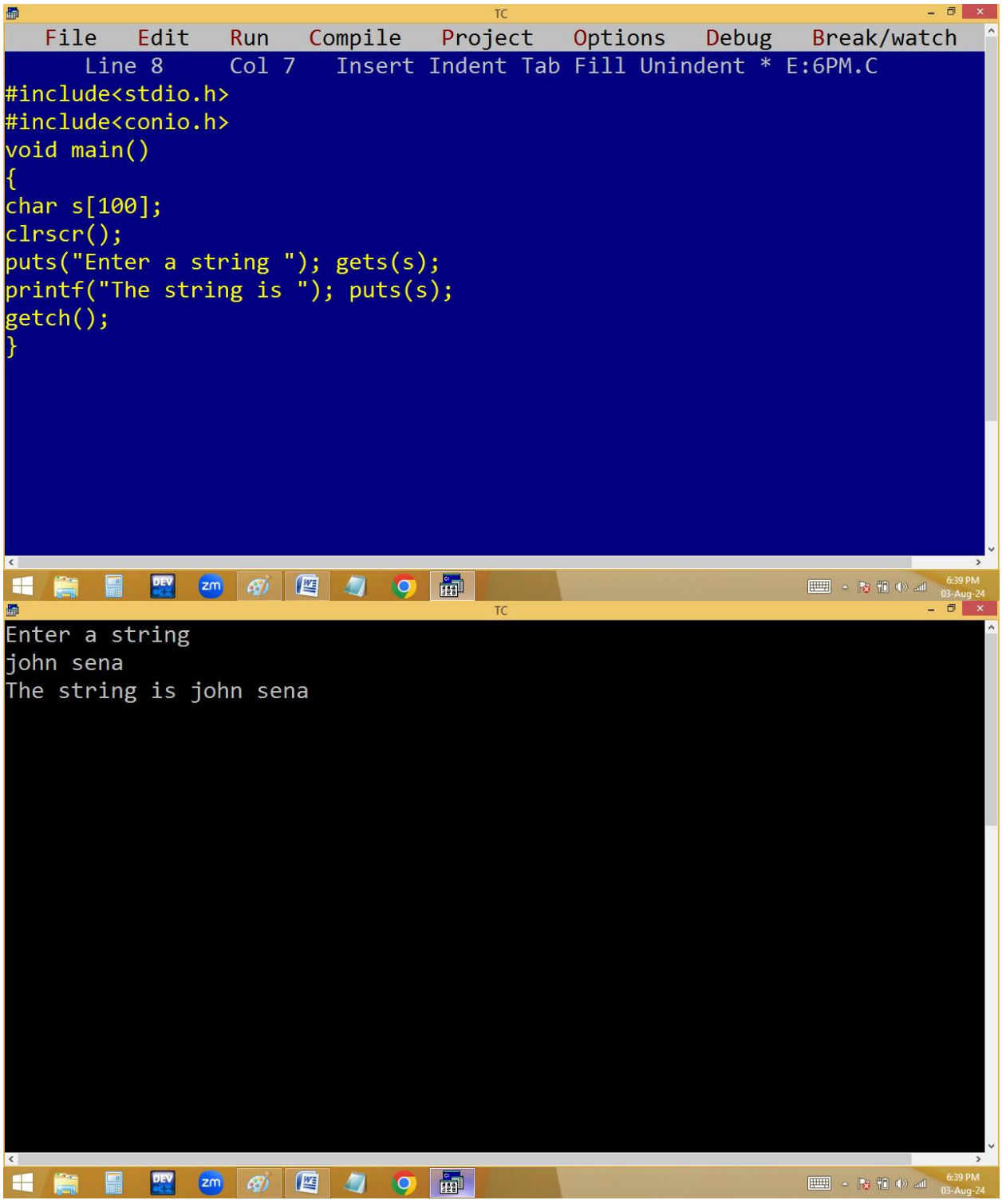
	65500	501	2	3	504
s	a	b	c	d	\0
	0	1	2	3	4

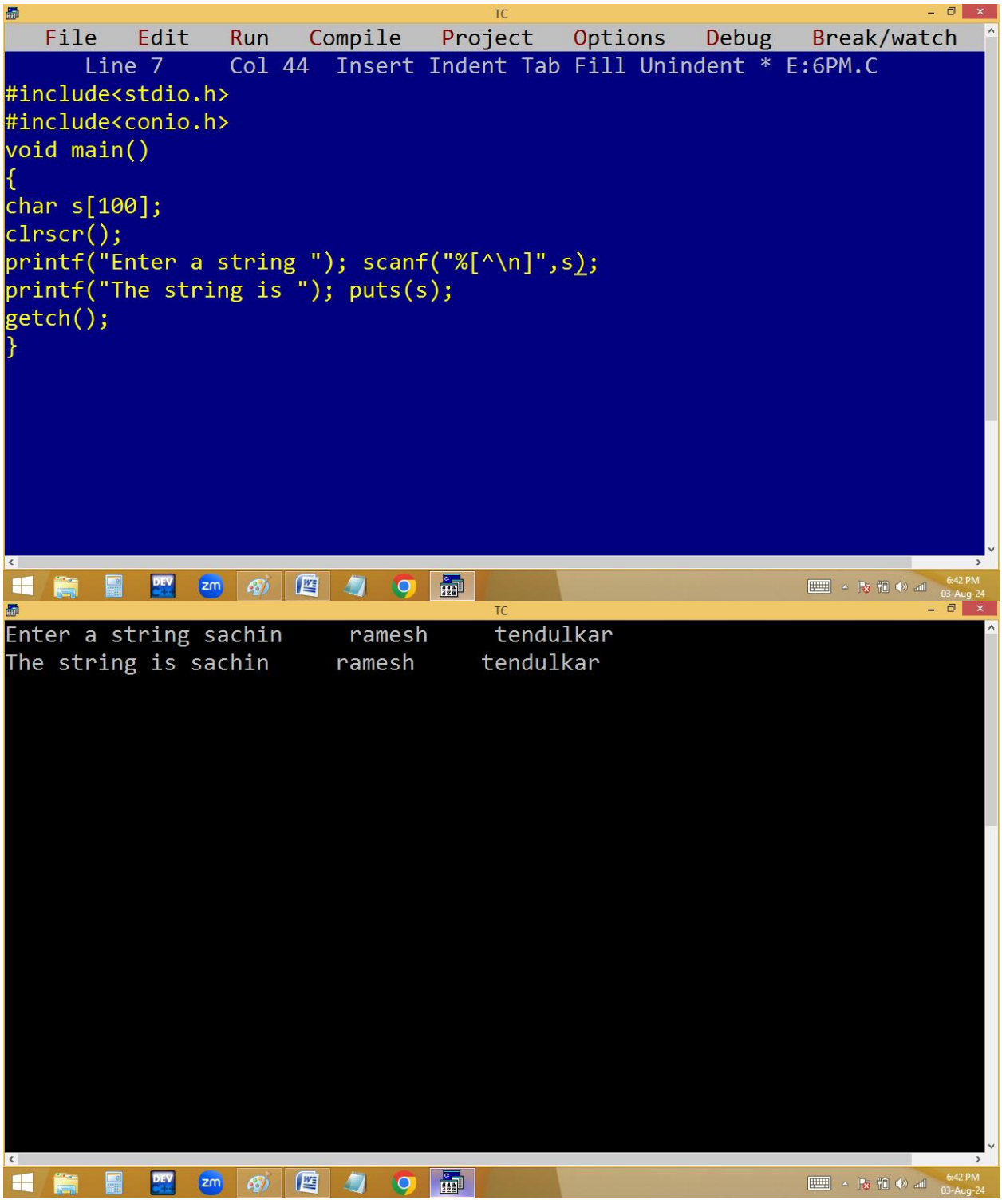
3 2 1 0
d c b a

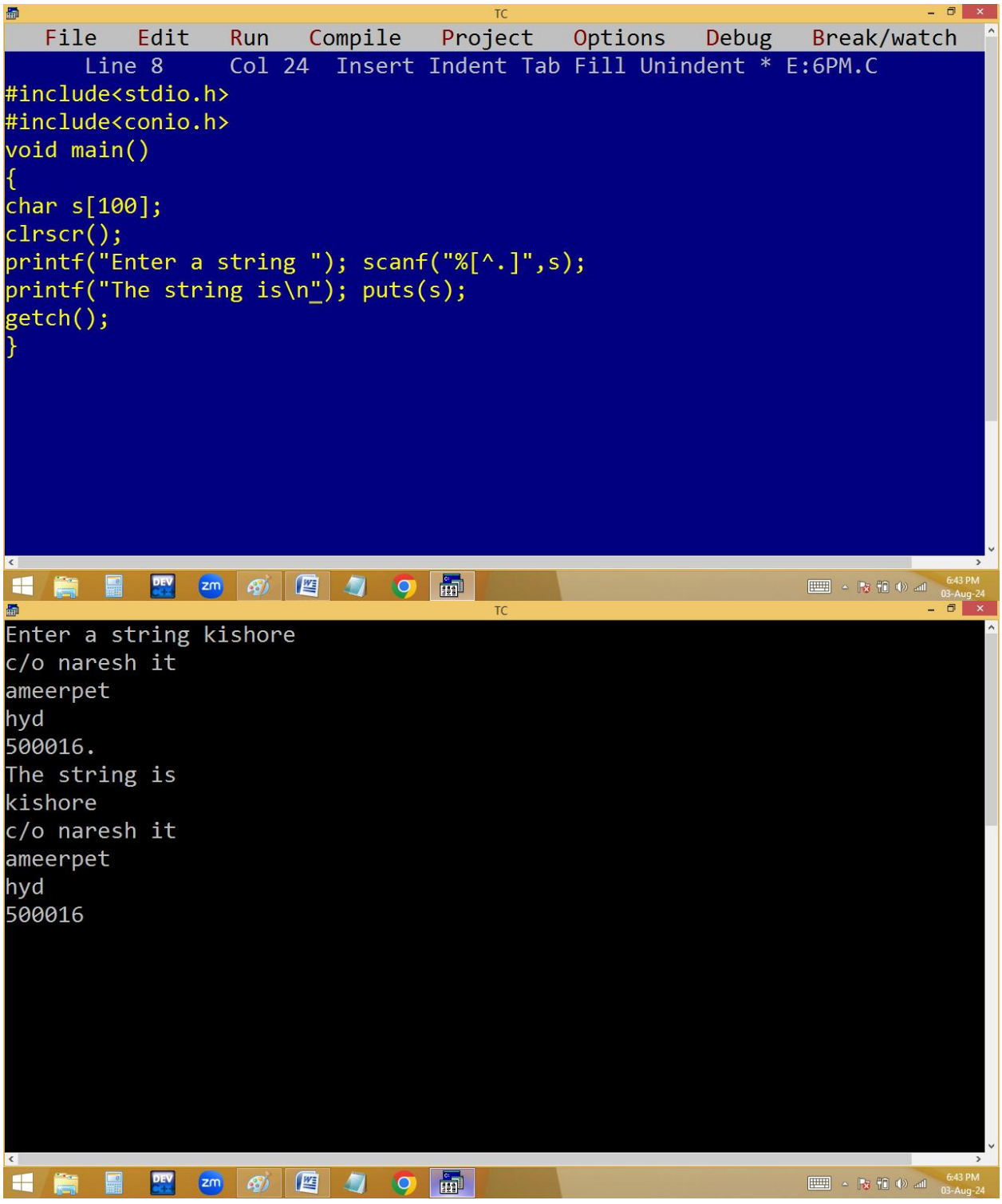
Scan set / magic characters:

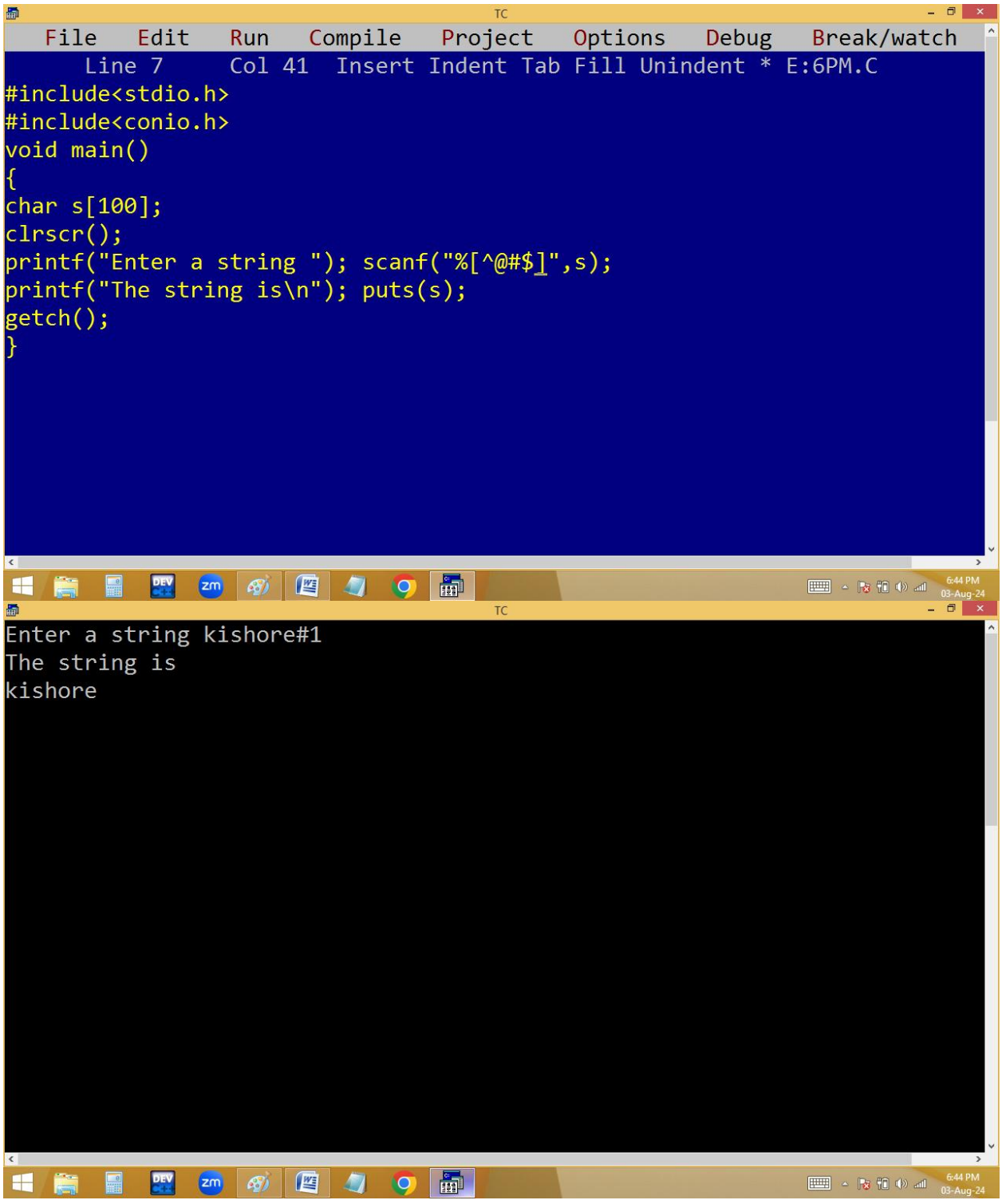

TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 12 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i,j;
clrscr();
printf("Enter a string "); gets(s);
for(i=0;s[i]!='\0';i++) /* strlen() */
{
}
printf("Length=%d\n",i);
printf("Reverse is "); while(i) printf("%c",s[--i]);
getch();
}
TC
Enter a string jack and jones
Length=14
Reverse is senoj dna kcaj

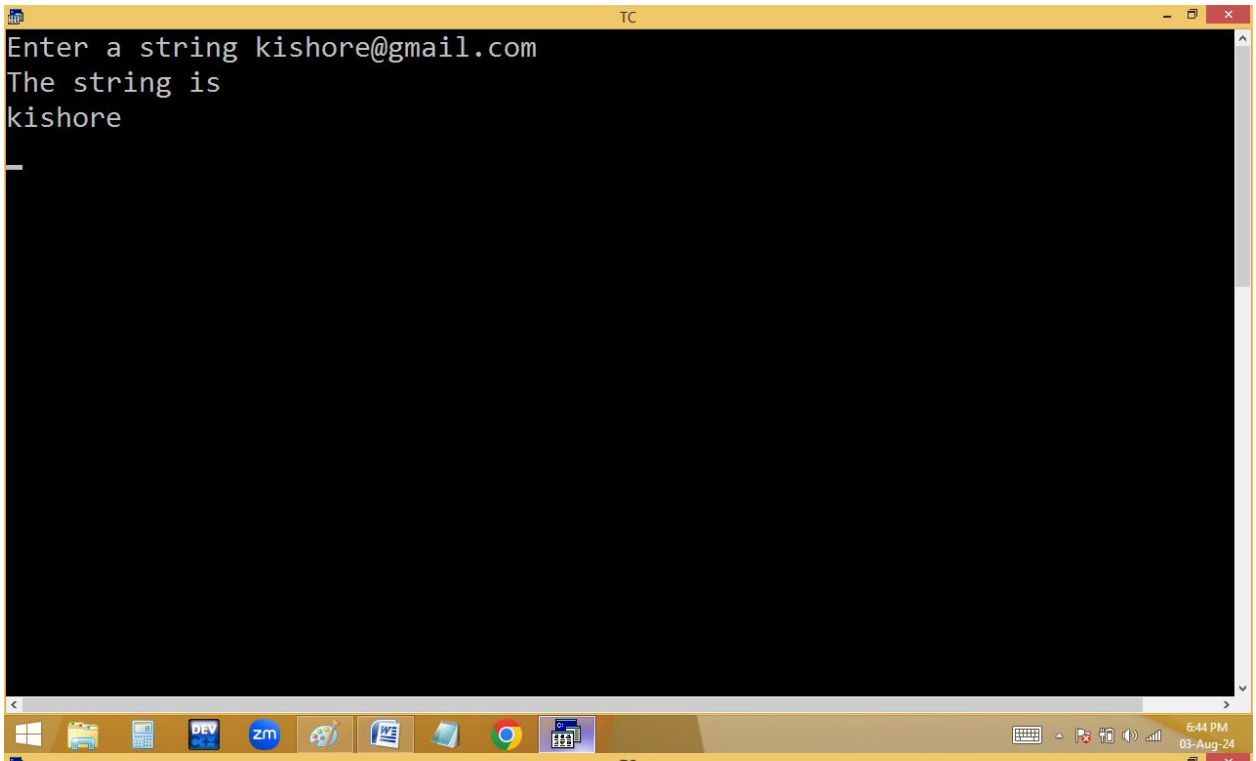

TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 24 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
puts("Enter a string "); gets(s);
puts("The string is "); puts(s);
getch();
}
6:39 PM
03-Aug-24
TC
Enter a string
john sena
The string is
john sena
6:39 PM
03-Aug-24

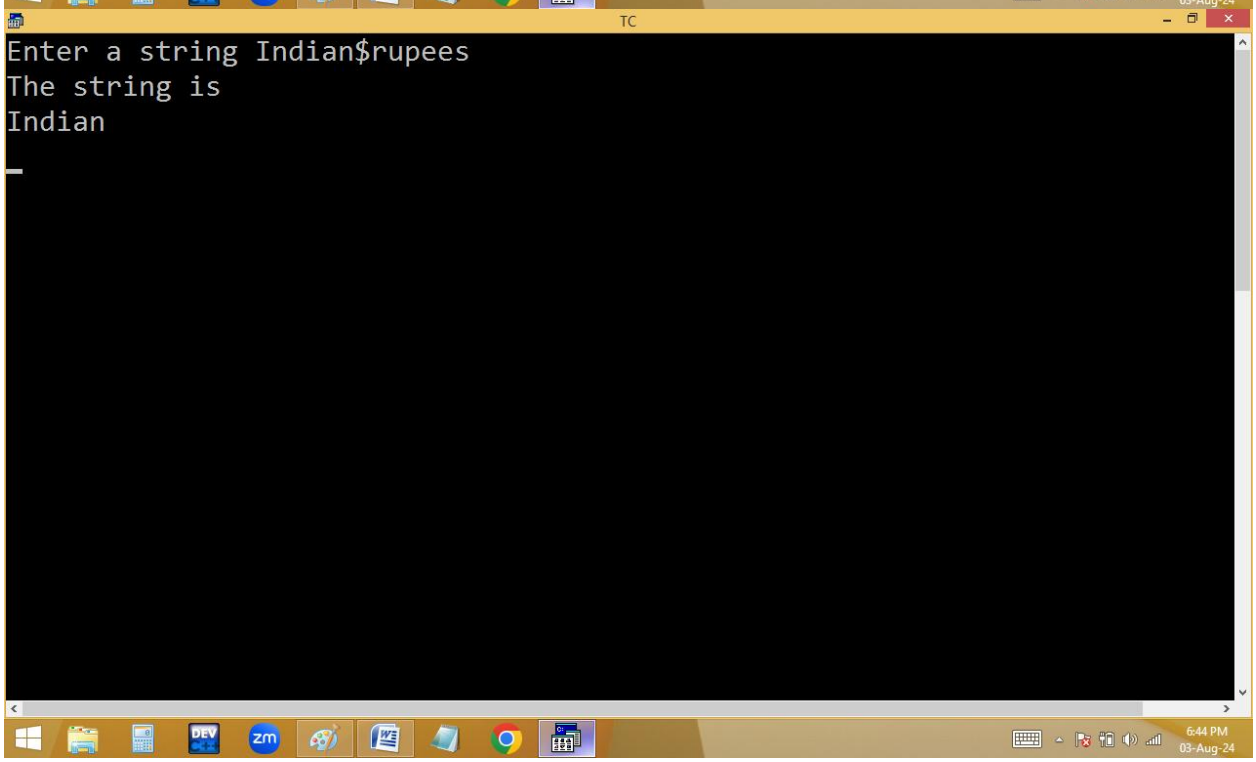

TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 7 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
puts("Enter a string "); gets(s);
printf("The string is "); puts(s);
getch();
}
6:39 PM
03-Aug-24
TC
Enter a string
john sena
The string is john sena
6:39 PM
03-Aug-24

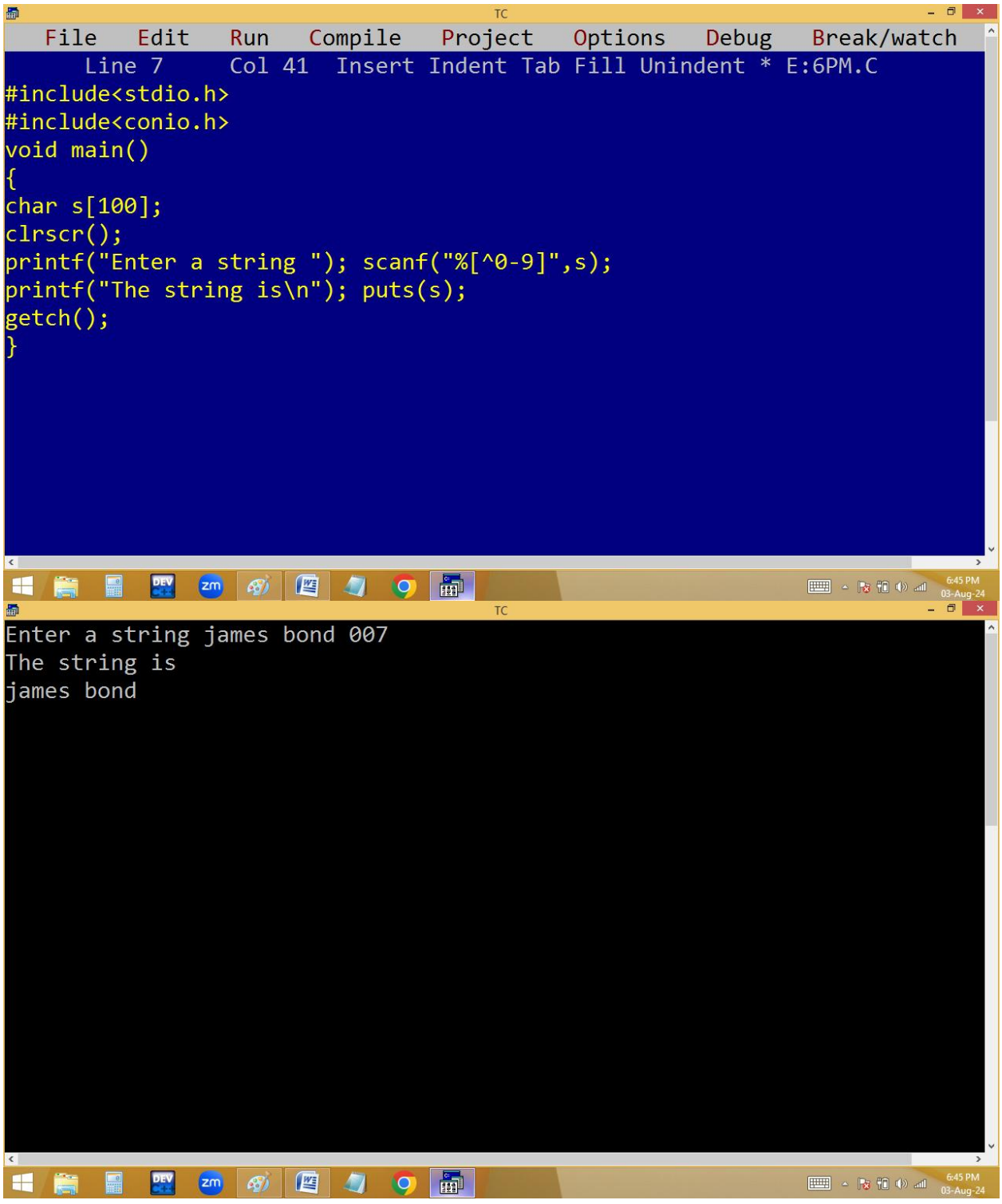

TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 44 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^\n]",s);
printf("The string is "); puts(s);
getch();
}
6:42 PM
03-Aug-24
TC
Enter a string sachin ramesh tendulkar
The string is sachin ramesh tendulkar
6:42 PM
03-Aug-24

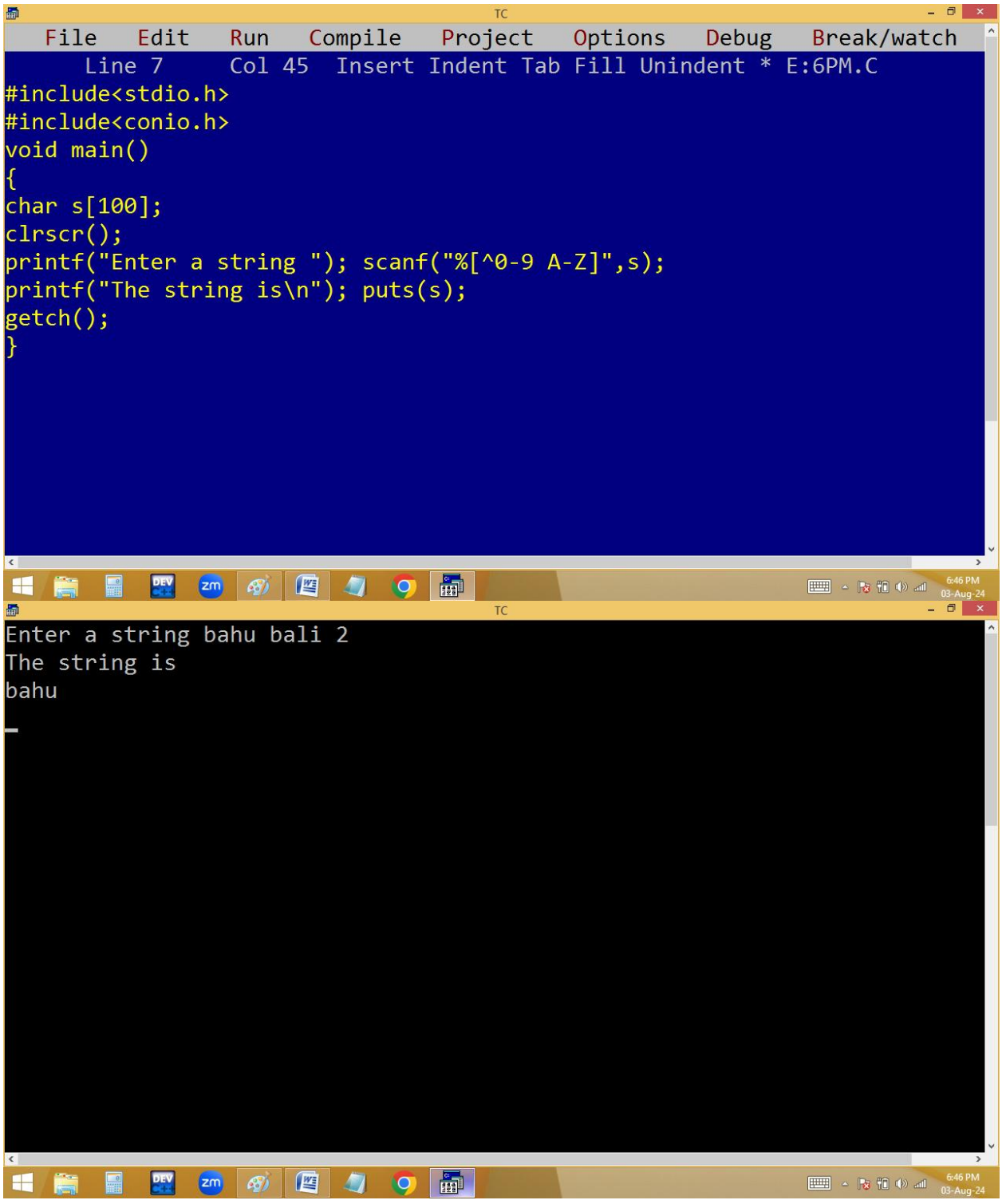

TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 24 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^.]",s);
printf("The string is\n"); puts(s);
getch();
}
TC
Enter a string kishore
c/o naresh it
ameerpet
hyd
500016.
The string is
kishore
c/o naresh it
ameerpet
hyd
500016

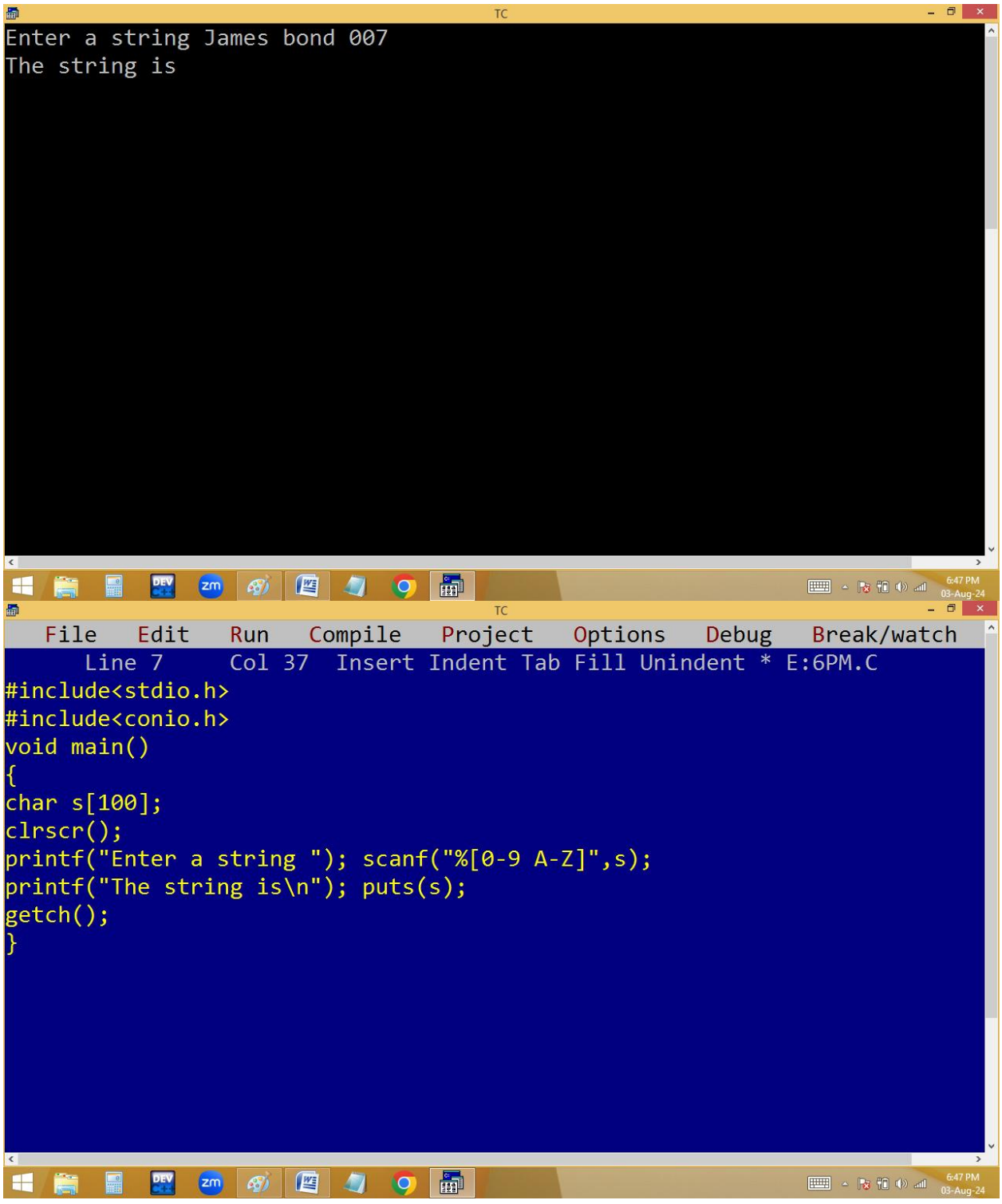

TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 41 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^@#$]",s);
printf("The string is\n"); puts(s);
getch();
}
6:44 PM
03-Aug-24
TC
Enter a string kishore#1
The string is
kishore
6:44 PM
03-Aug-24

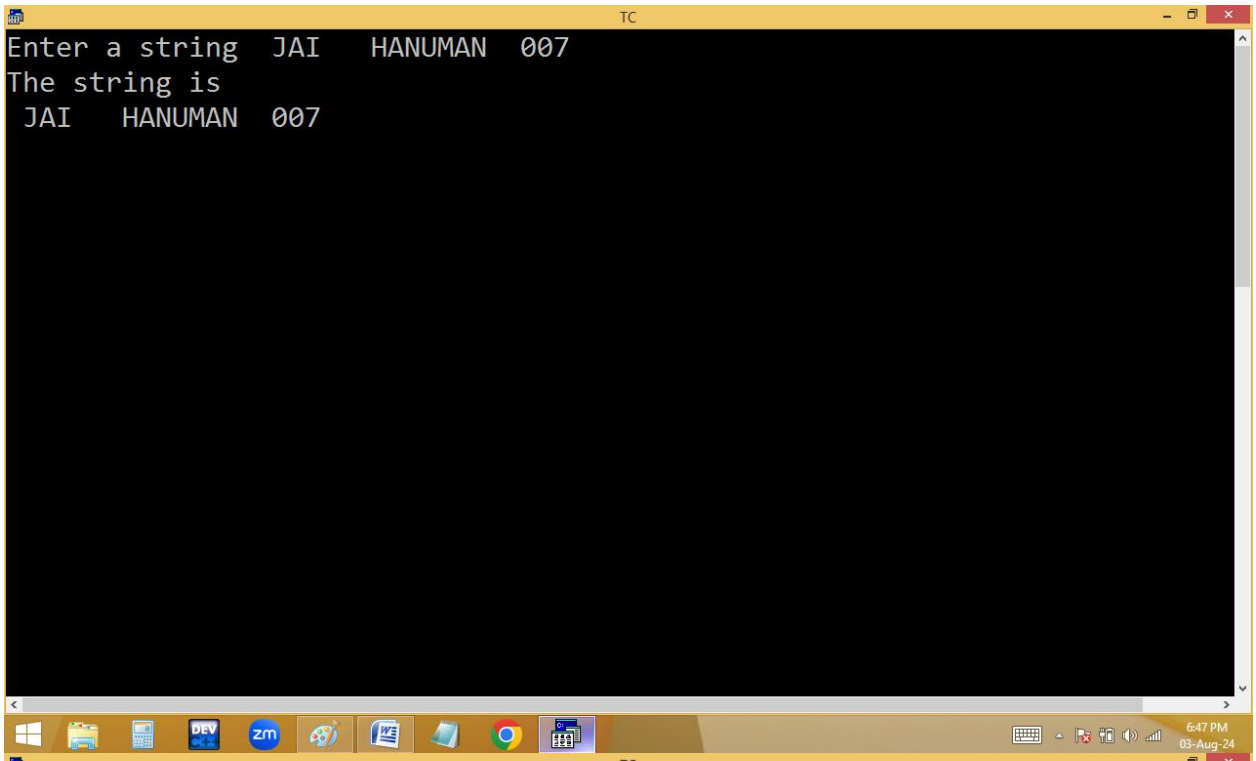

TC
Enter a string kishore@gmail.com
The string is
kishore

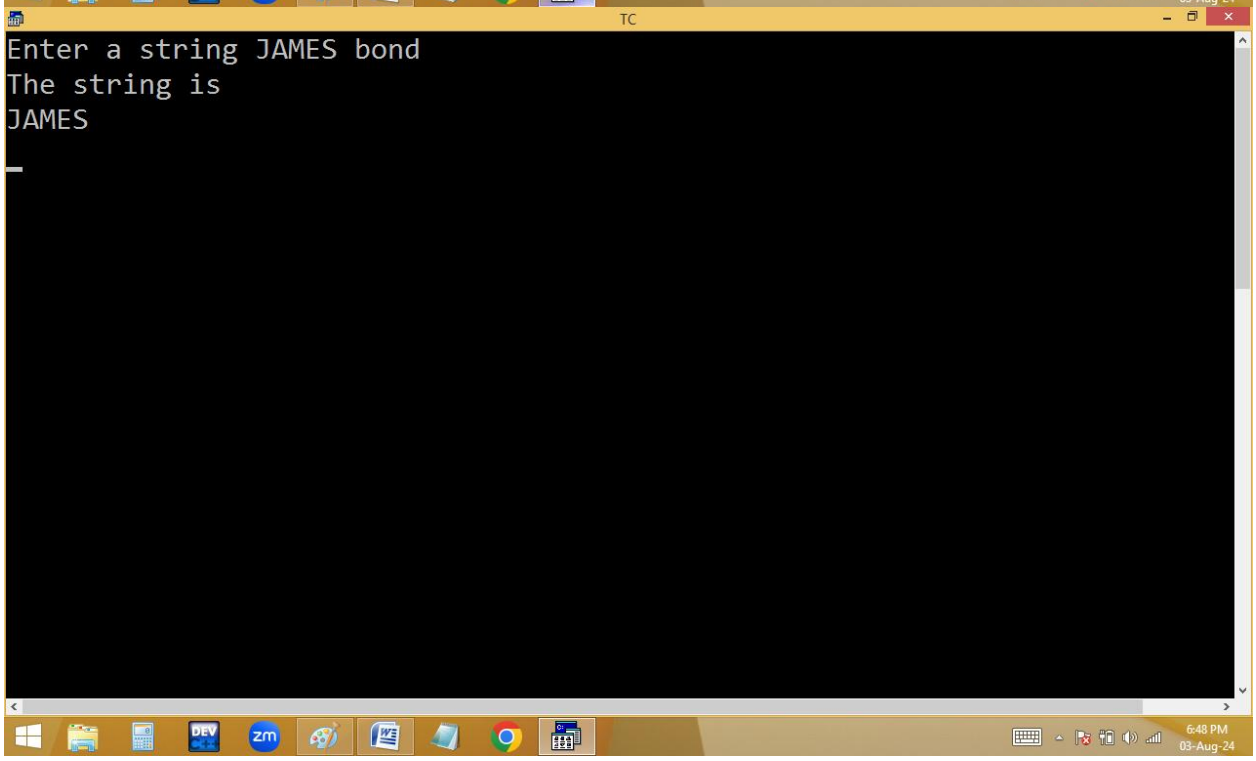

TC
Enter a string Indian$rupees
The string is
Indian

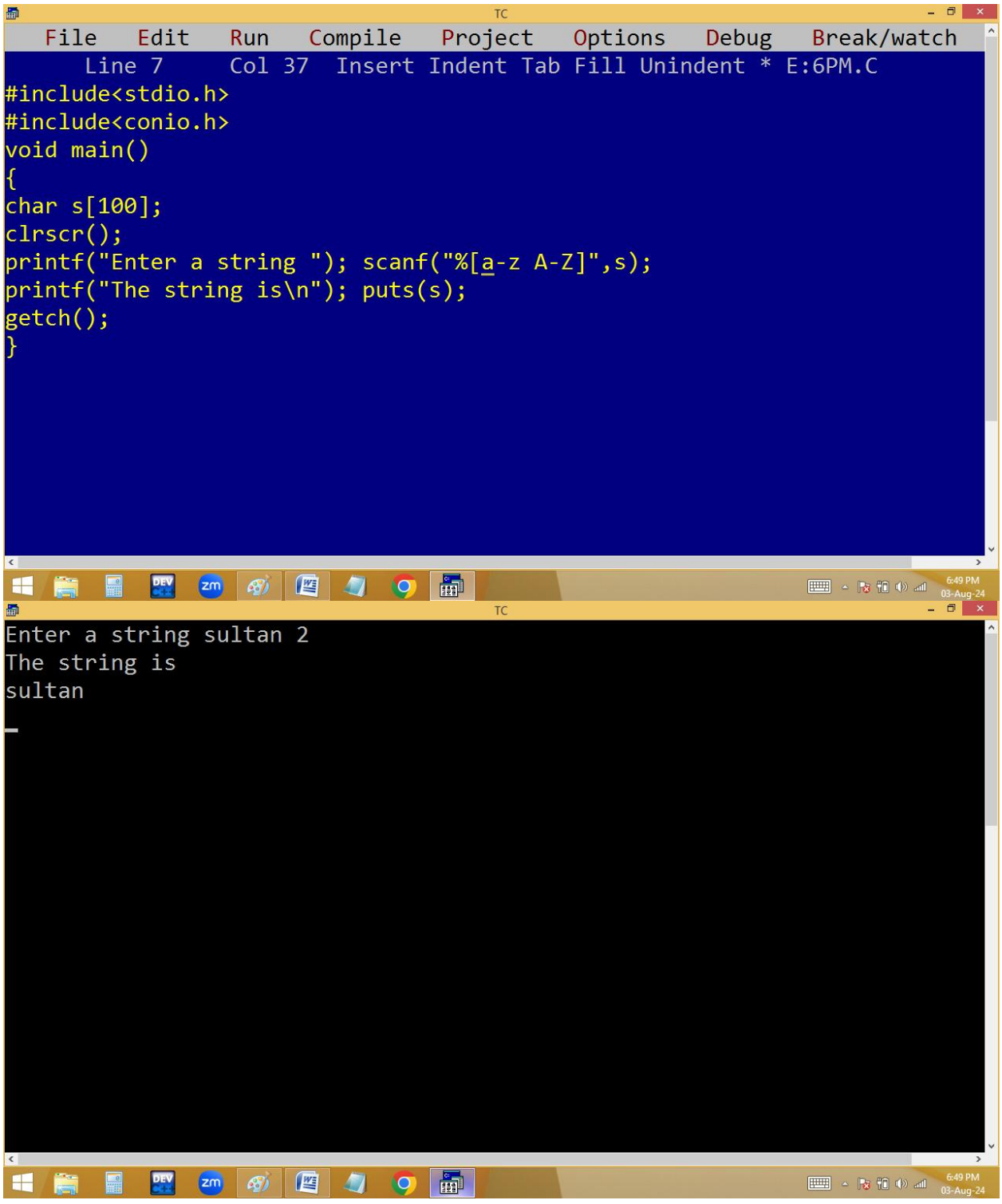

TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 41 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[^0-9]",s);
printf("The string is\n"); puts(s);
getch();
}
6:45 PM
03-Aug-24
TC
Enter a string james bond 007
The string is
james bond
6:45 PM
03-Aug-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 45 Insert Indent Tab Fill Unindent * E:6PM.C
#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\n"); puts(s);
getch();
}
6:46 PM
03-Aug-24
TC
Enter a string bahu bali 2
The string is
bahu
6:46 PM
03-Aug-24

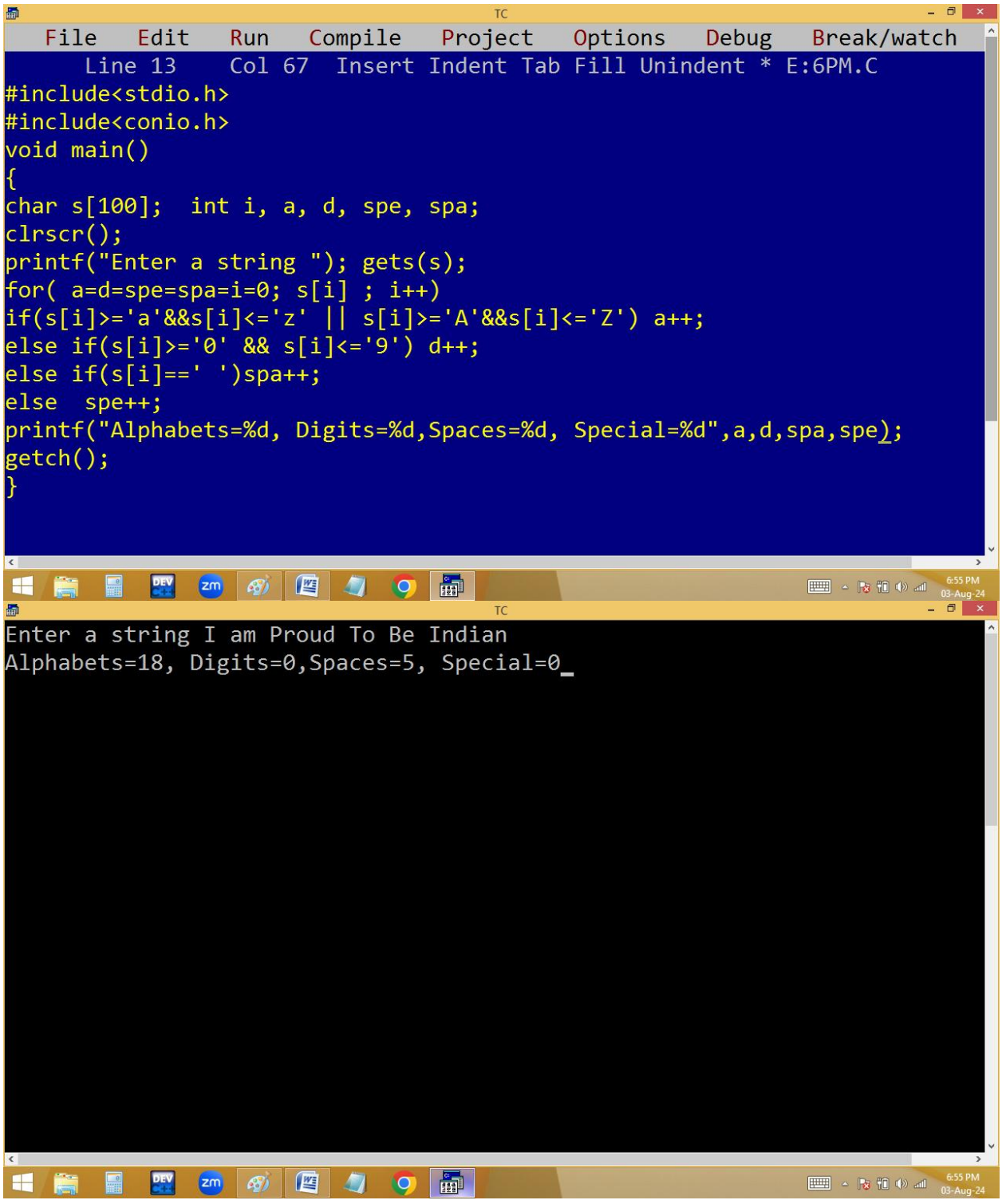

TC
Enter a string James bond 007
The string is
TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 37 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[0-9 A-Z]",s);
printf("The string is\n"); puts(s);
getch();
}

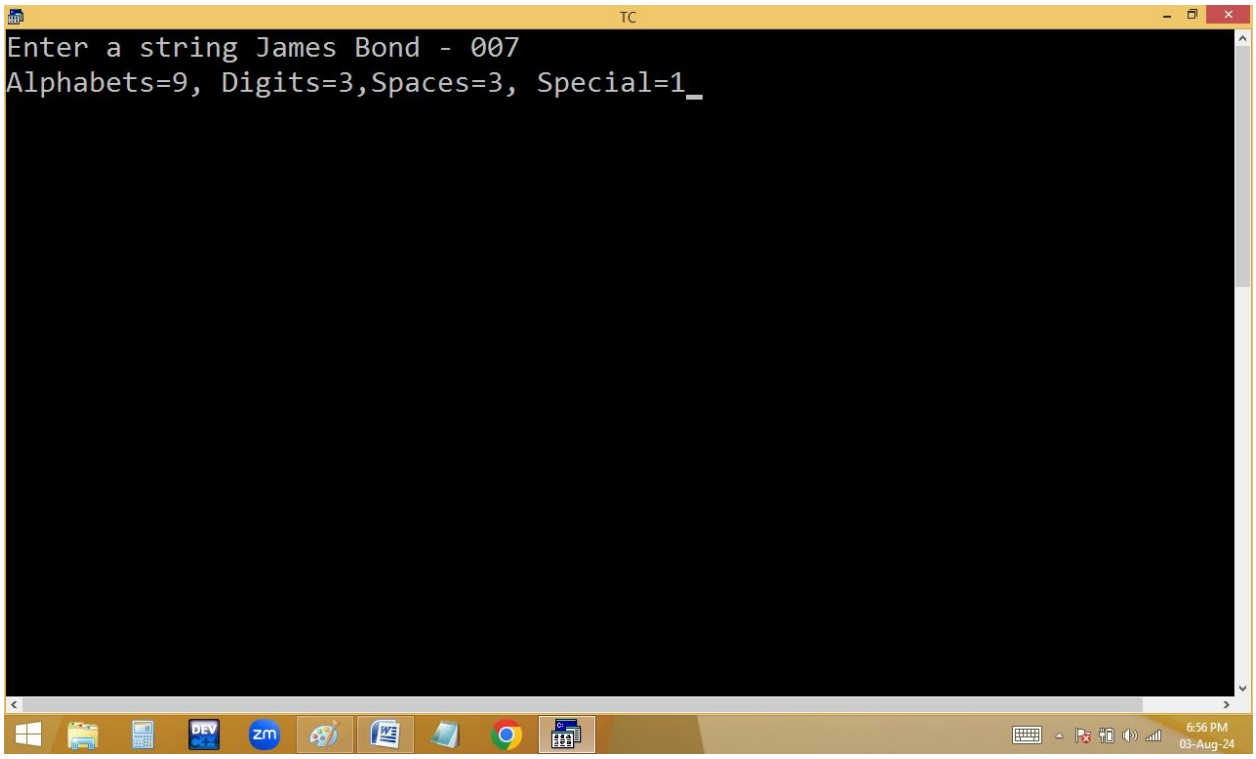

TC
Enter a string JAI   HANUMAN 007
The string is
 JAI   HANUMAN 007
6:47 PM
03-Aug-24


TC
Enter a string JAMES bond
The string is
JAMES
6:48 PM
03-Aug-24

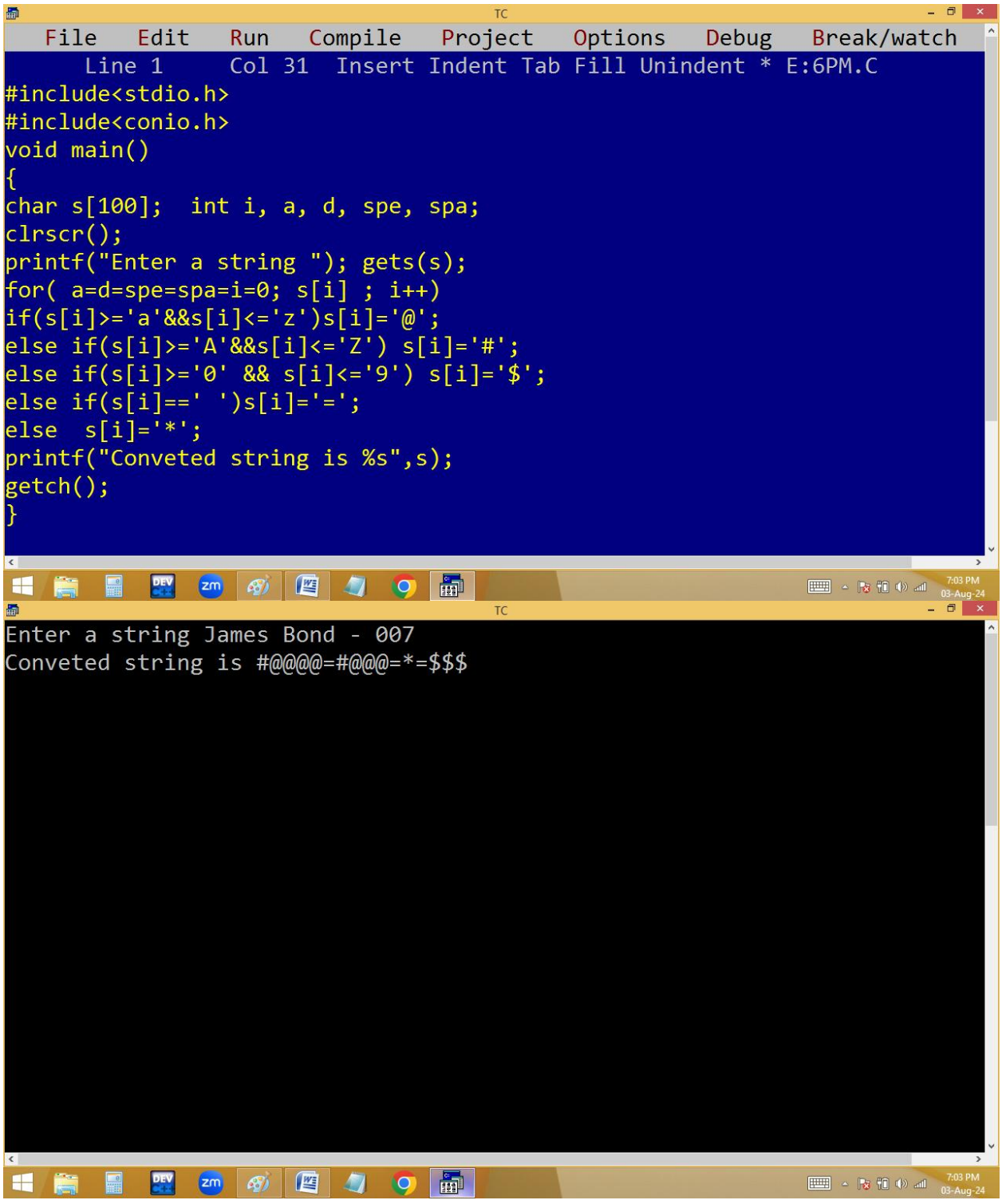

TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 37 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100];
clrscr();
printf("Enter a string "); scanf("%[a-z A-Z]",s);
printf("The string is\n"); puts(s);
getch();
}
6:49 PM
03-Aug-24
TC
Enter a string sultan 2
The string is
sultan
6:49 PM
03-Aug-24

Finding the no of alphabets, digits, spaces, special characters in given string


TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 67 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char s[100]; int i, a, d, spe, spa;
clrscr();
printf("Enter a string "); gets(s);
for(a=d=spe=spa=i=0; s[i] ; i++)
if(s[i]>='a'&&s[i]<='z' || s[i]>='A'&&s[i]<='Z') a++;
else if(s[i]>='0' && s[i]<='9') d++;
else if(s[i]==' ')spa++;
else spe++;
printf("Alphabets=%d, Digits=%d,Spaces=%d, Special=%d",a,d,spa,spe);
getch();
}
TC
Enter a string I am Proud To Be Indian
Alphabets=18, Digits=0,Spaces=5, Special=0

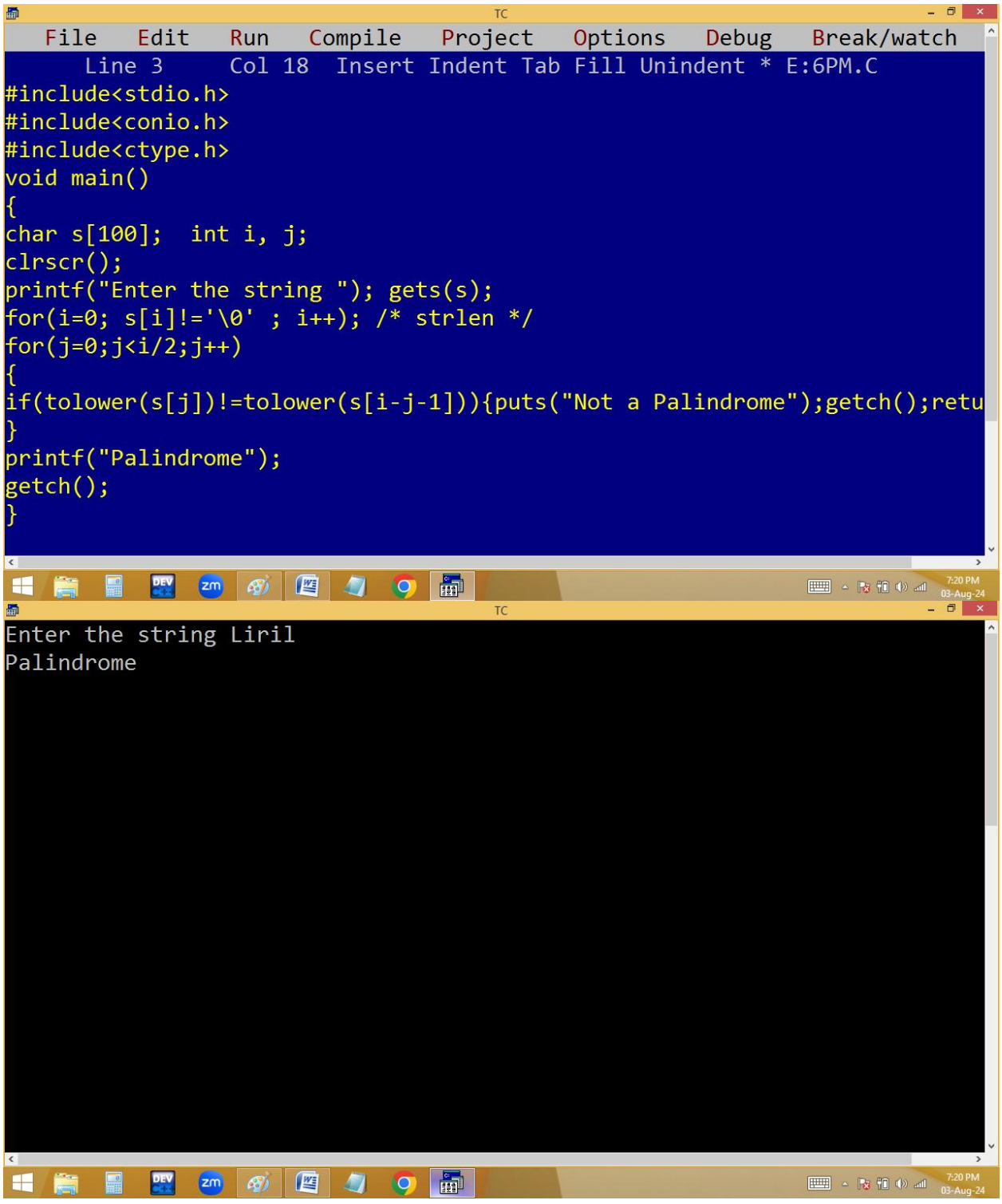


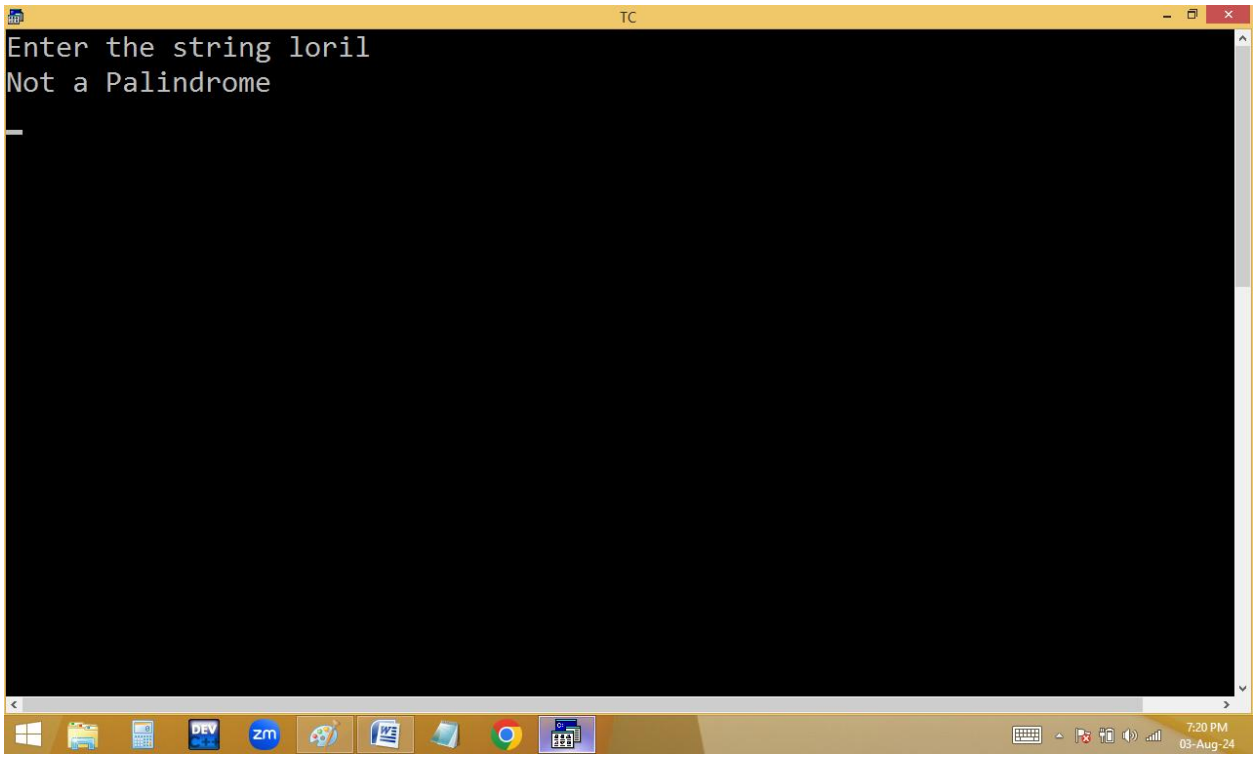
Replace lower/ upper / digits / special / spaces with @/#/$/*/=

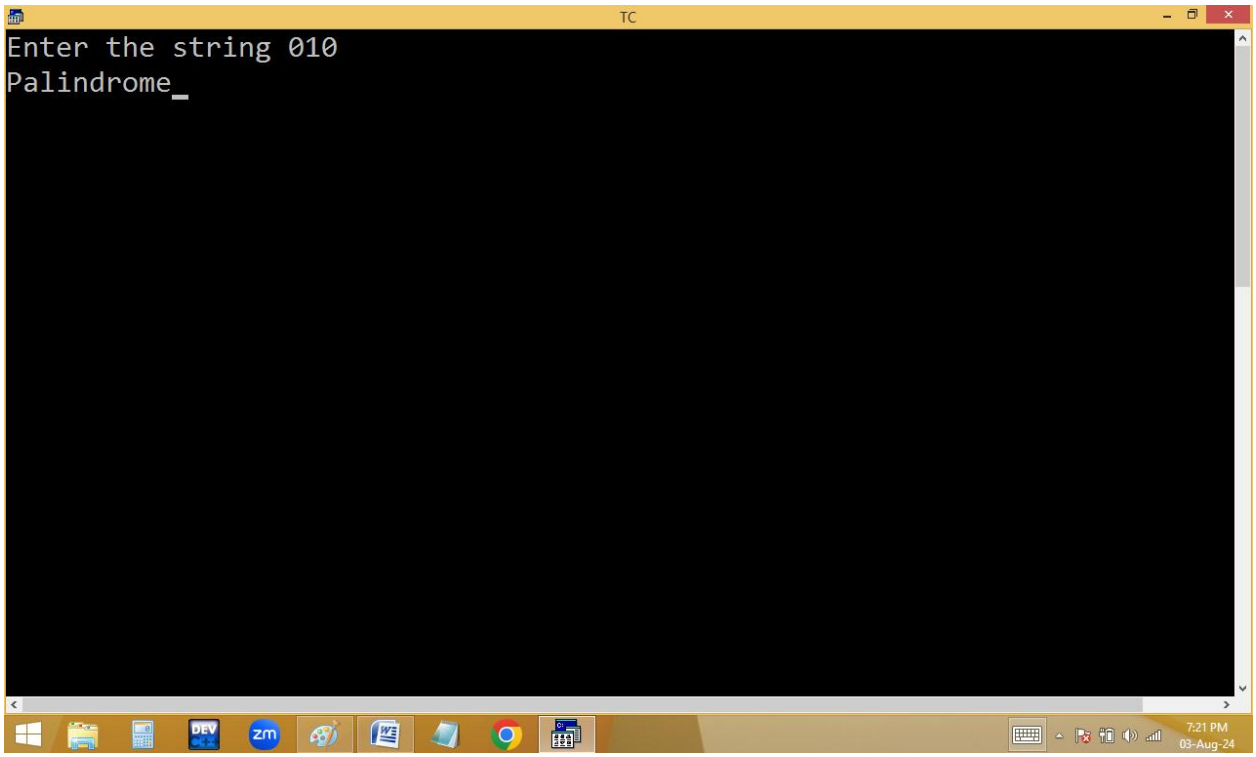


Finding palindrome or not using single string:

liril, madam, malayalam, ...


TC
File Edit Run Compile Project Options Debug Break/watch
Line 3 Col 18 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
void main()
{
char s[100]; int i, j;
clrscr();
printf("Enter the string "); gets(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();retu
}
printf("Palindrome");
getch();
}
TC
Enter the string Liril
Palindrome


TC
Enter the string loril
Not a Palindrome
7:20 PM
03-Aug-24




```
for(i=0; s[i]!='\0';i++);   length=4

for( j=0; j<i/2;j++)
{
if(a[ j]!=[a[i-j-1])
{
p("not a palindrome"); return;
}
}
p(palin);
```

	65500	501	2	3	504
s	a	m	m	a	\0
	0	1	2	3	4

$\frac{i-j-1}{4-0-1=3}$ ✓ $\frac{j}{0}$ ✓

$4-1-1=2$ 1

2

Home work:

1. **Finding palindrome using 2 strings.**
2. **Finding no of words in given string**
   Eg: Jaanu I miss you ➔ 4 words