int printf(“[text] [conversion characters]” [, variables] [, expressions]);

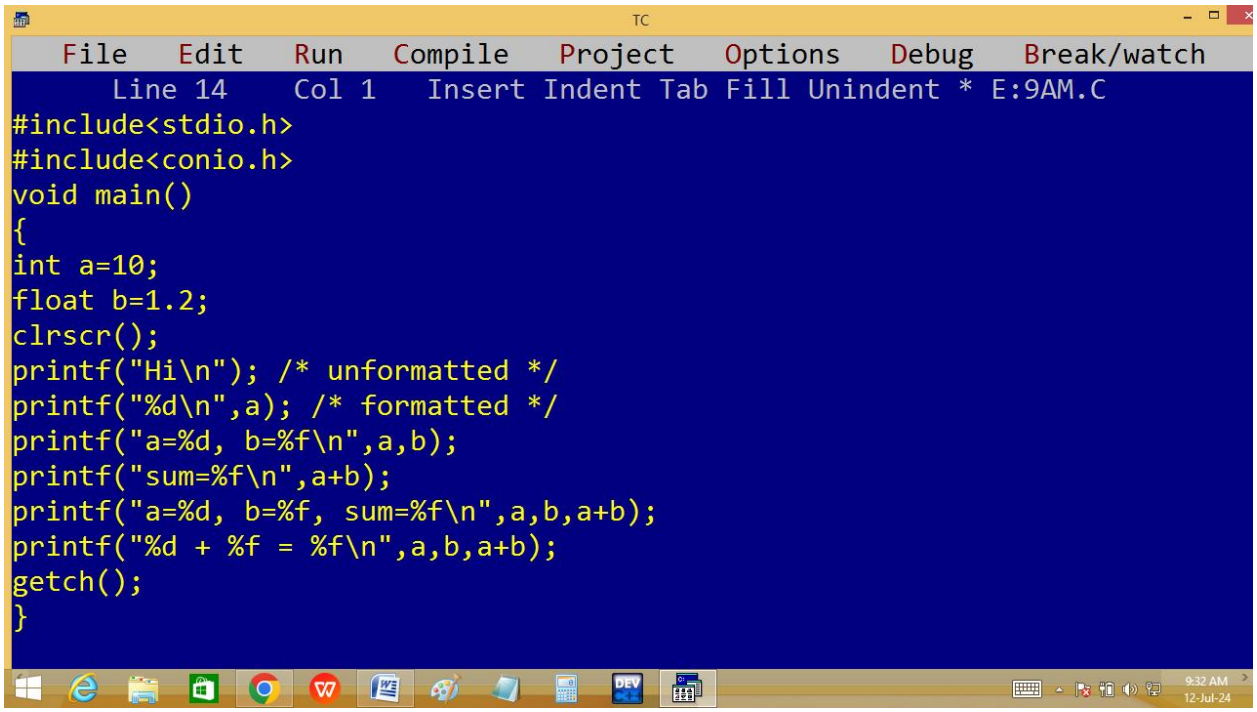
2. in printf execution order is right to left and printing is left to right.

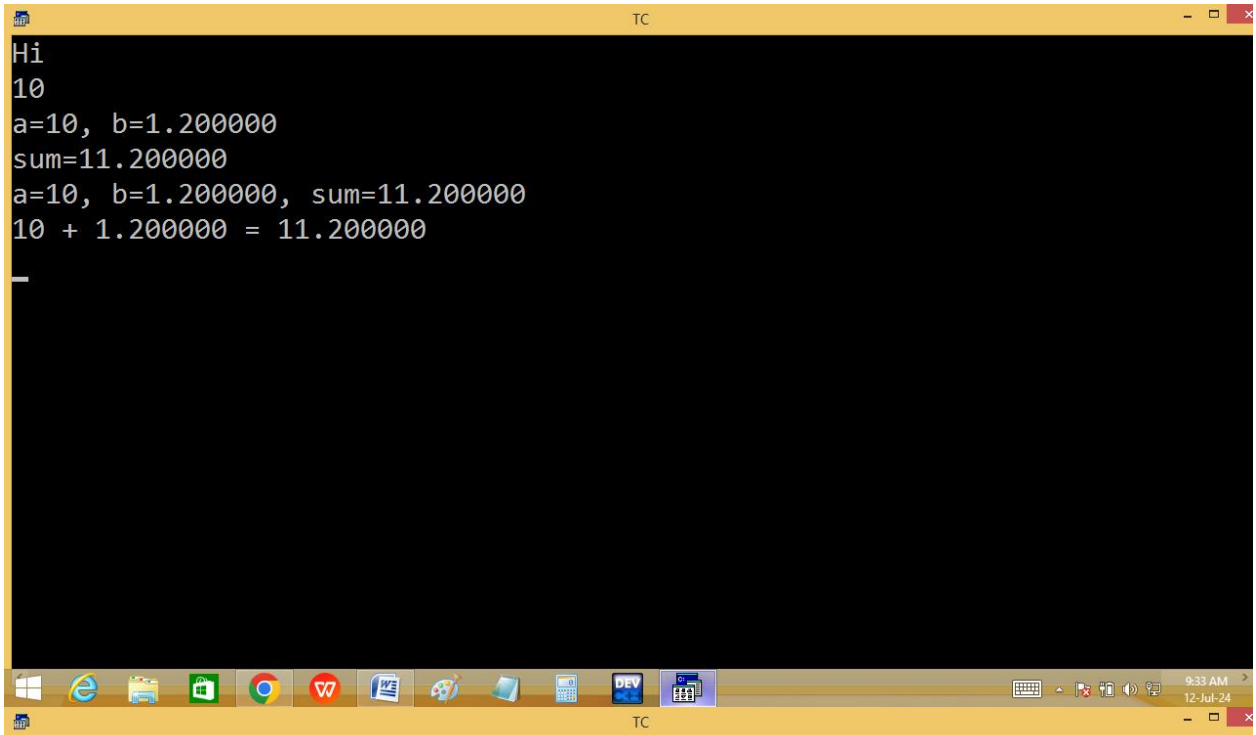
3. in printf everything printed as it is except conversion characters and back slash characters.

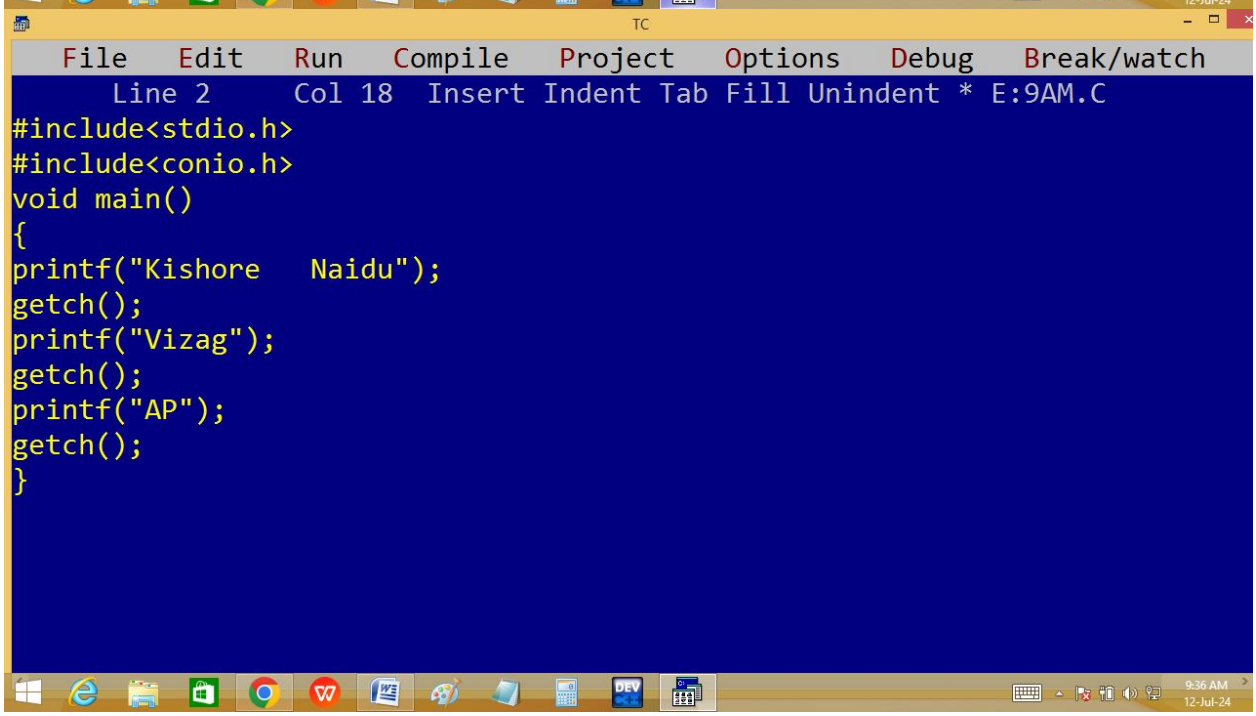
4. in printf the first argument should be within “ “.

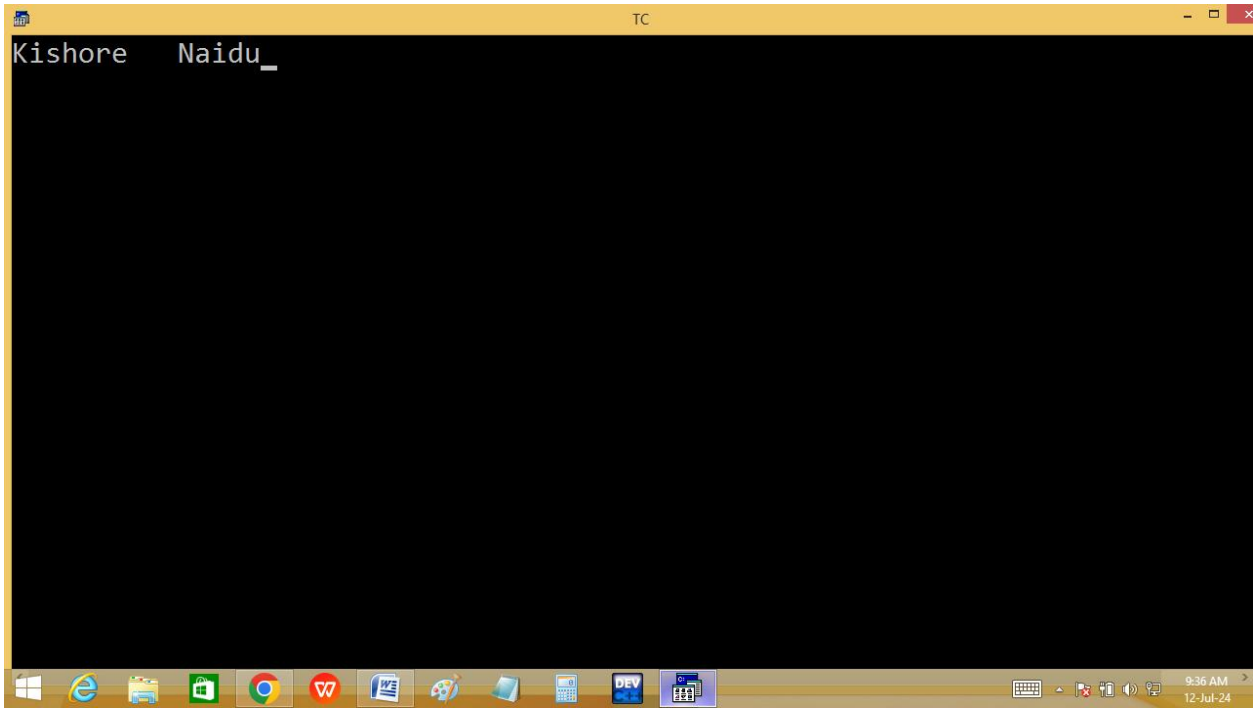
5. printf can perform both formatted and unformatted outputs.

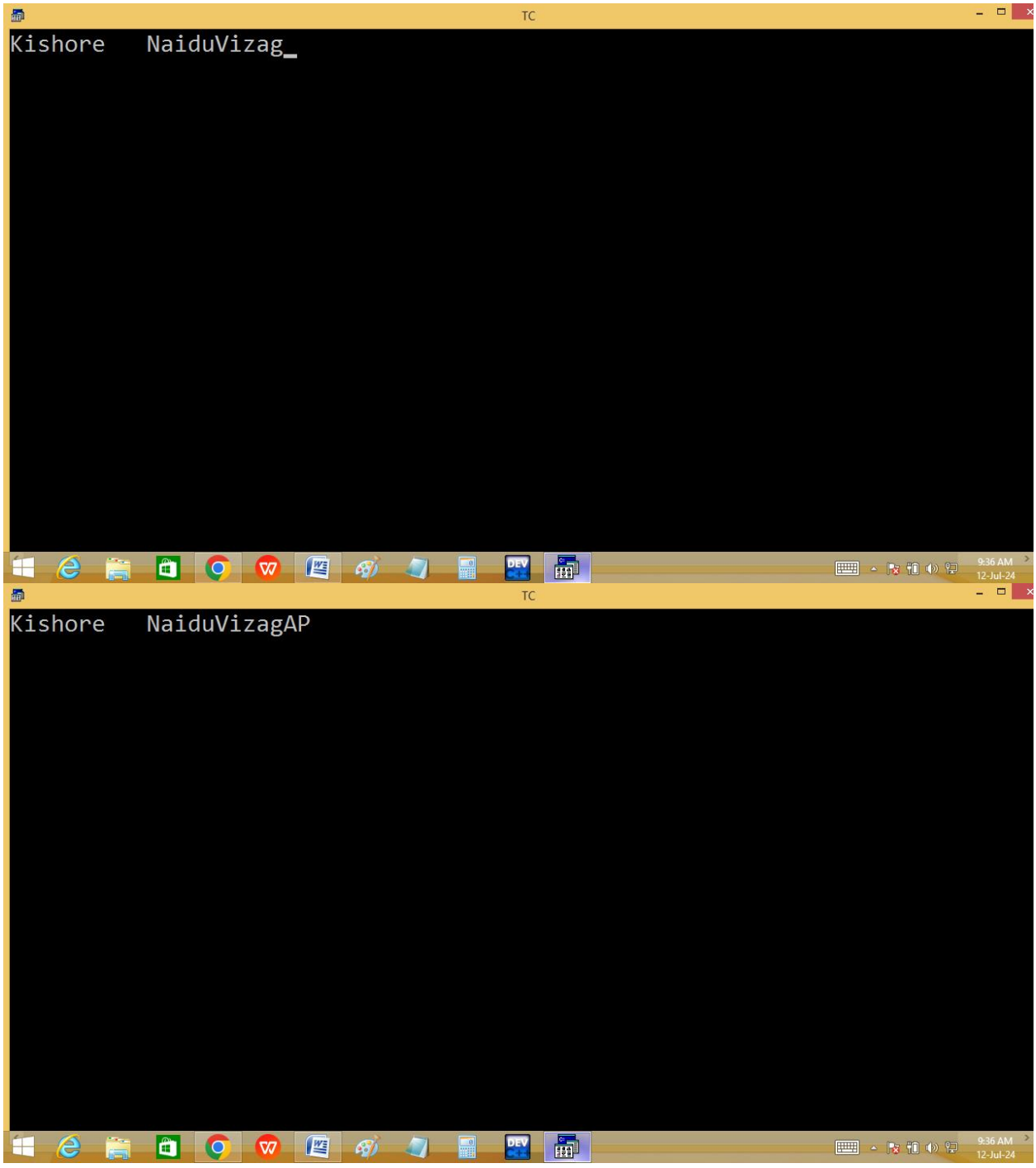
Eg:

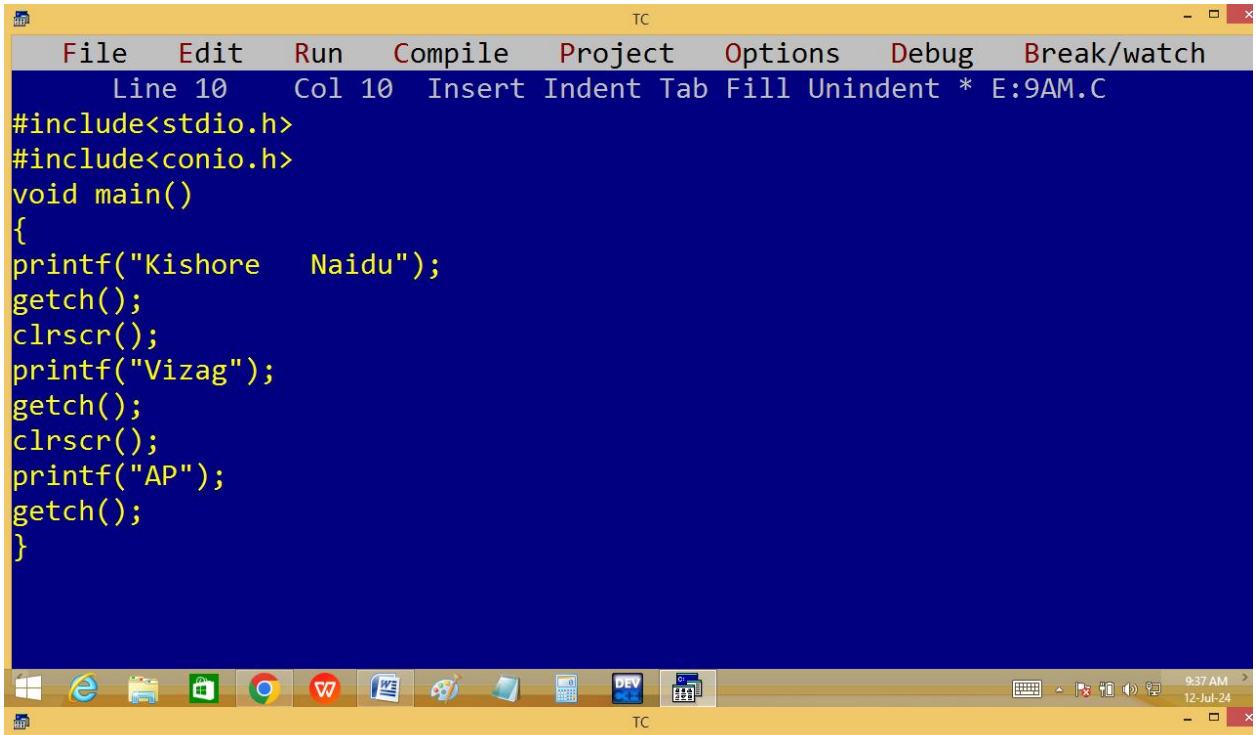


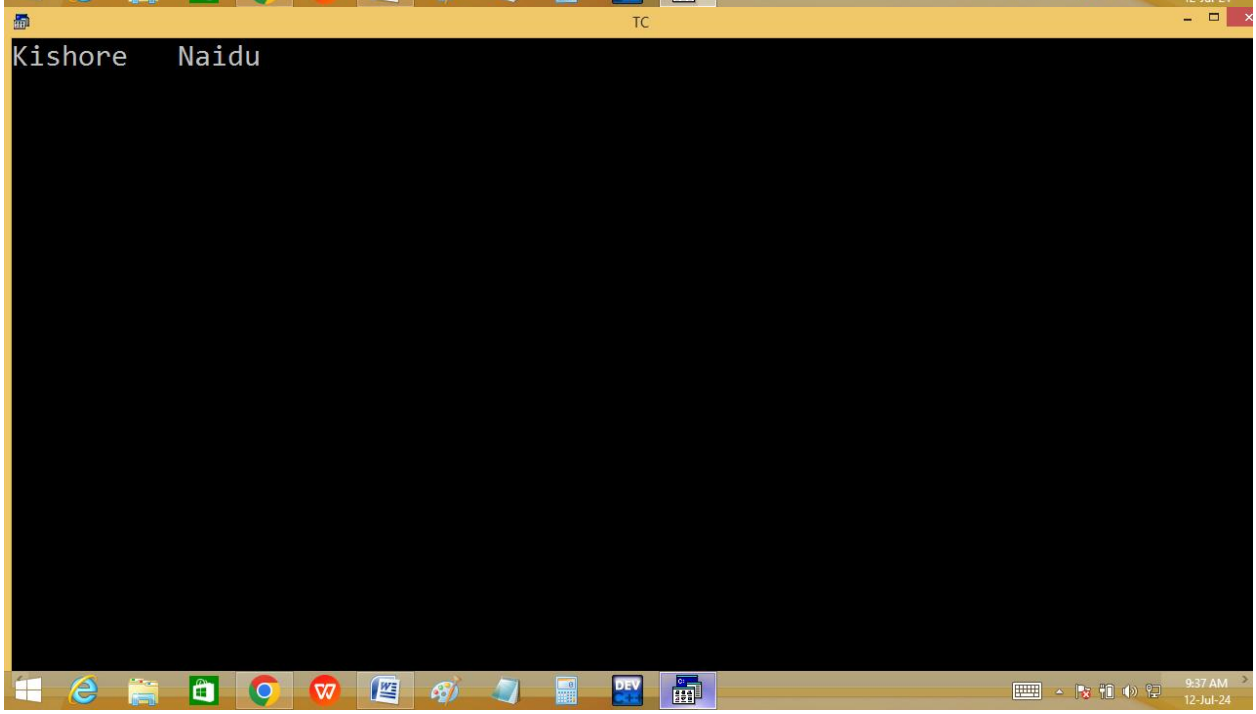

TC
Hi
10
a=10, b=1.200000
sum=11.200000
a=10, b=1.200000, sum=11.200000
10 + 1.200000 = 11.200000

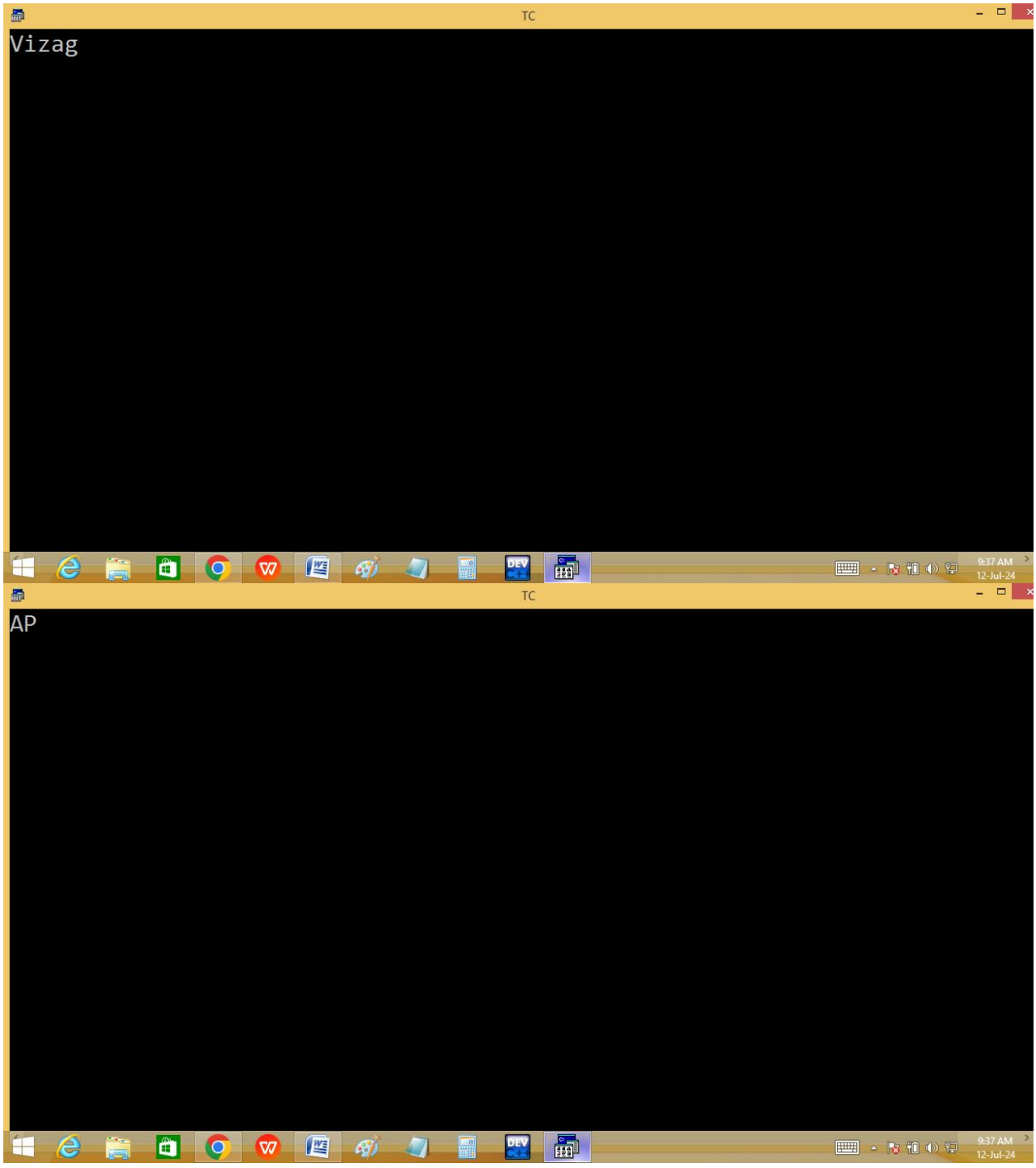

TC
File Edit Run Compile Project Options Debug Break/watch
Line 2 Col 18 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
printf("Kishore Naidu");
getch();
printf("Vizag");
getch();
printf("AP");
getch();
}

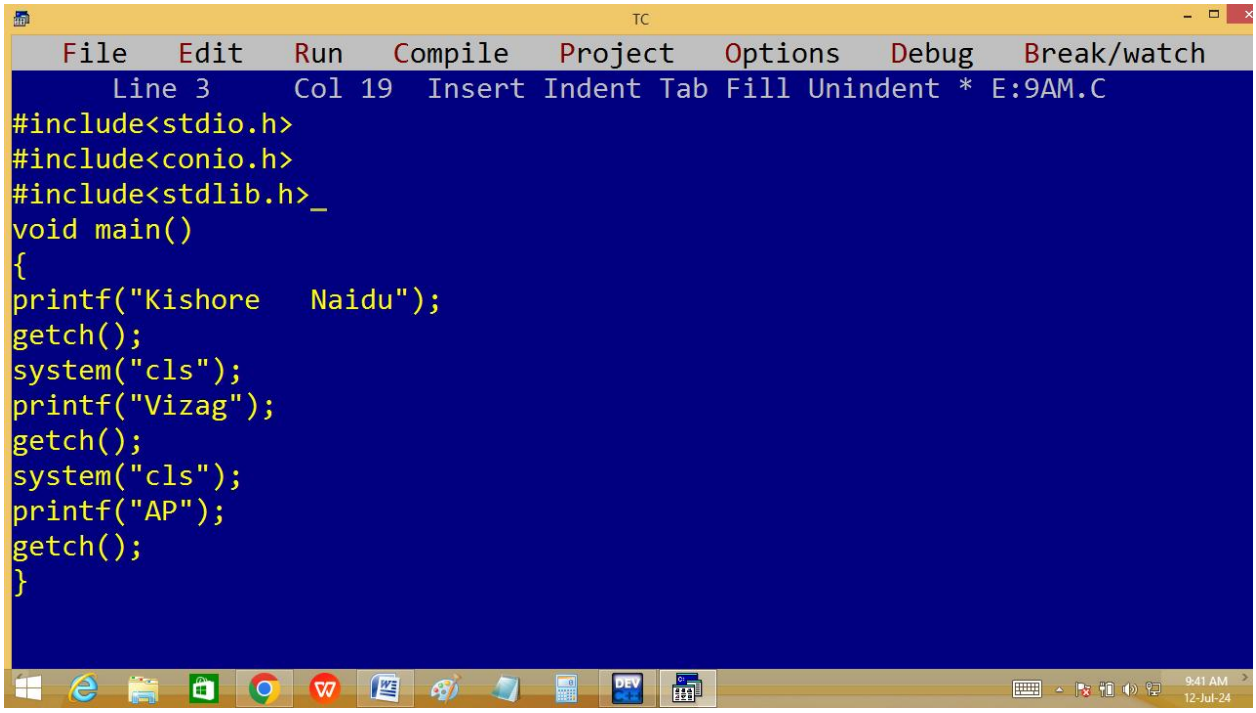

TC
Kishore Naidu
9:36 AM
12-Jul-24


TC
Kishore NaiduVizag
9:36 AM
12-Jul-24
TC
Kishore NaiduVizagAP
9:36 AM
12-Jul-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 10 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
printf("Kishore Naidu");
getch();
clrscr();
printf("Vizag");
getch();
clrscr();
printf("AP");
getch();
}


TC
Kishore Naidu


TC
Vizag
TC
AP



BACK SLASH / ESCAPE SEQUENCE CHARACTERS

They started with back slash [\ ].

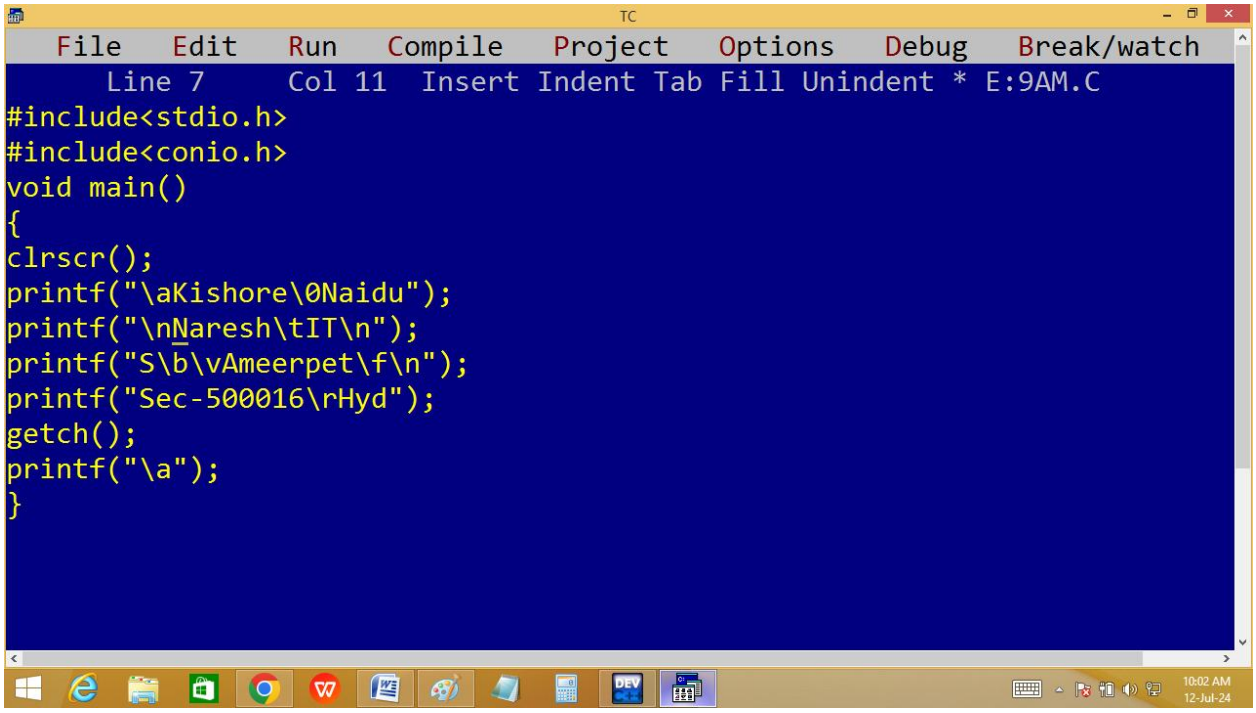
They used to format the outputs.

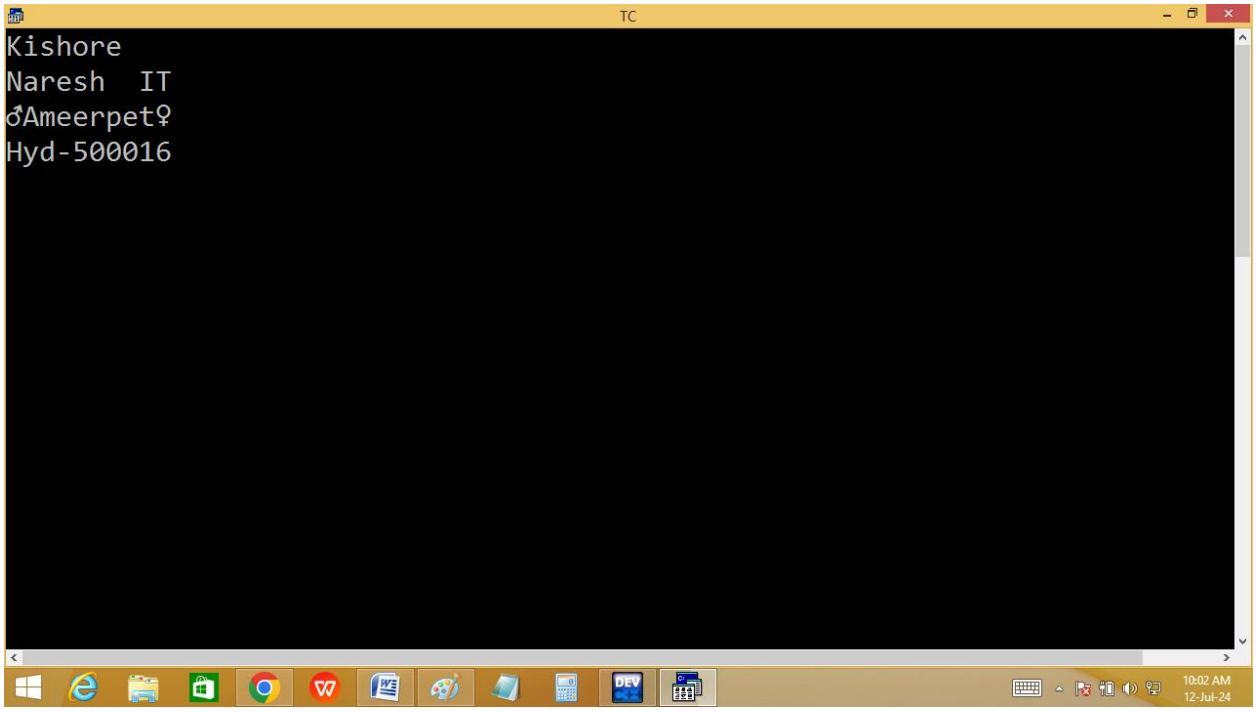
They participated in program execution but not displayed in output. Hence they are also called **escape sequence characters**.

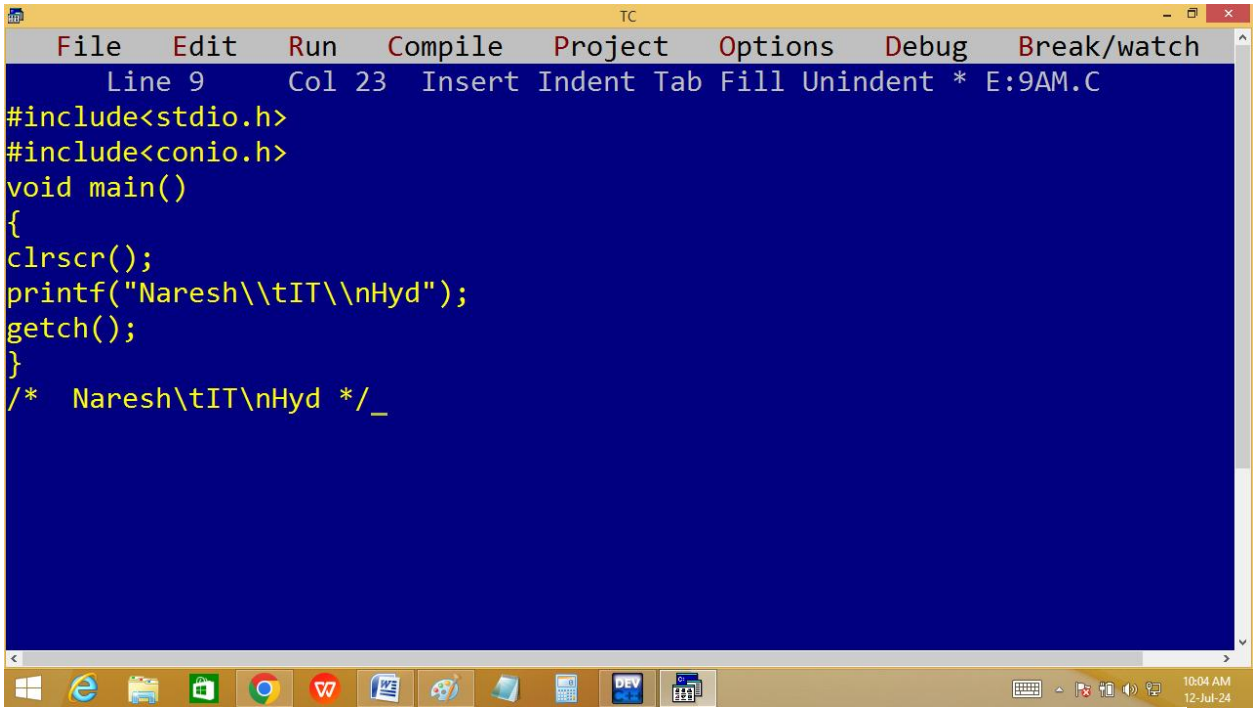
Each back slash character=**1 byte i.e. one character.**

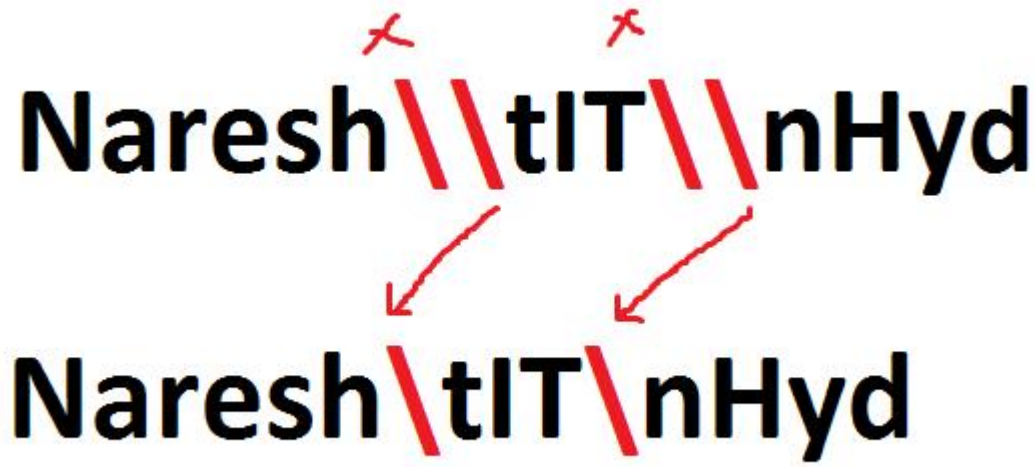
BACK SLASH CHARACTER	DESCRIPTION
\a	Alert [beep sound]
\b	Back space

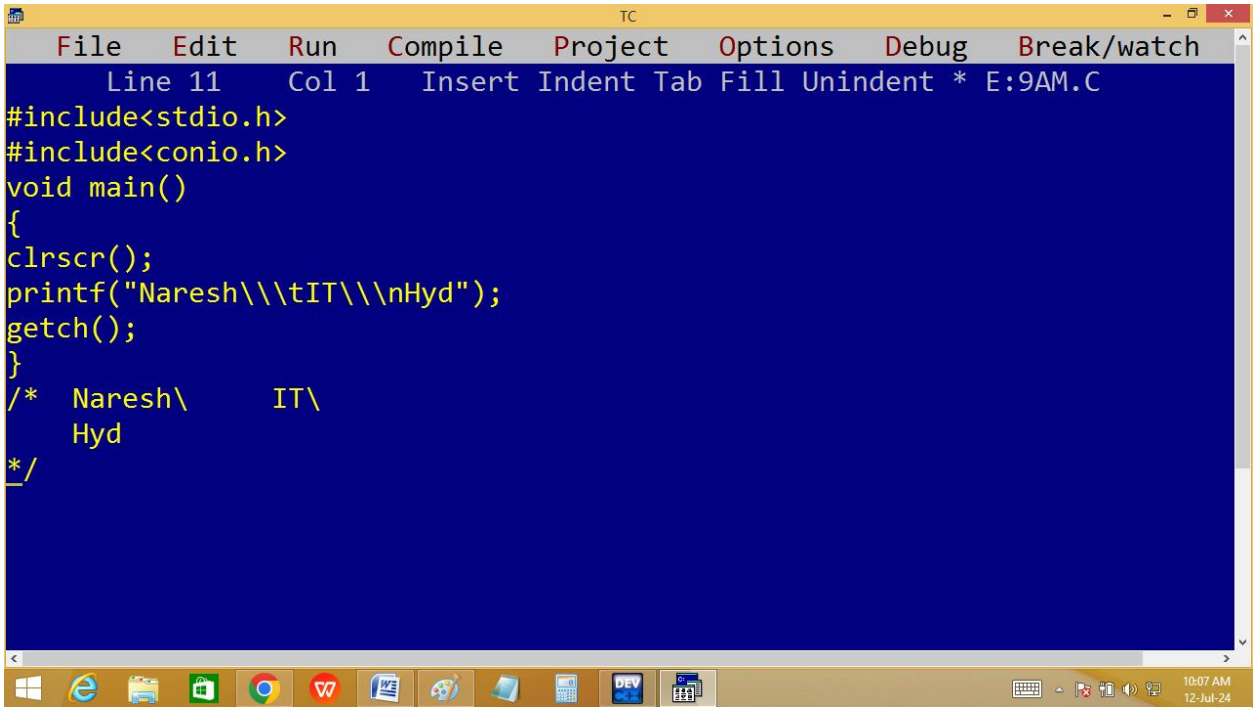
\n	New line character
\t	Tab space
\r	Carriage return[beginning of line]
\f	Form feed ♀
\v	Vertical tab ♂
\0	Null char
\\	\ [invalid]
\k	k [invalid]

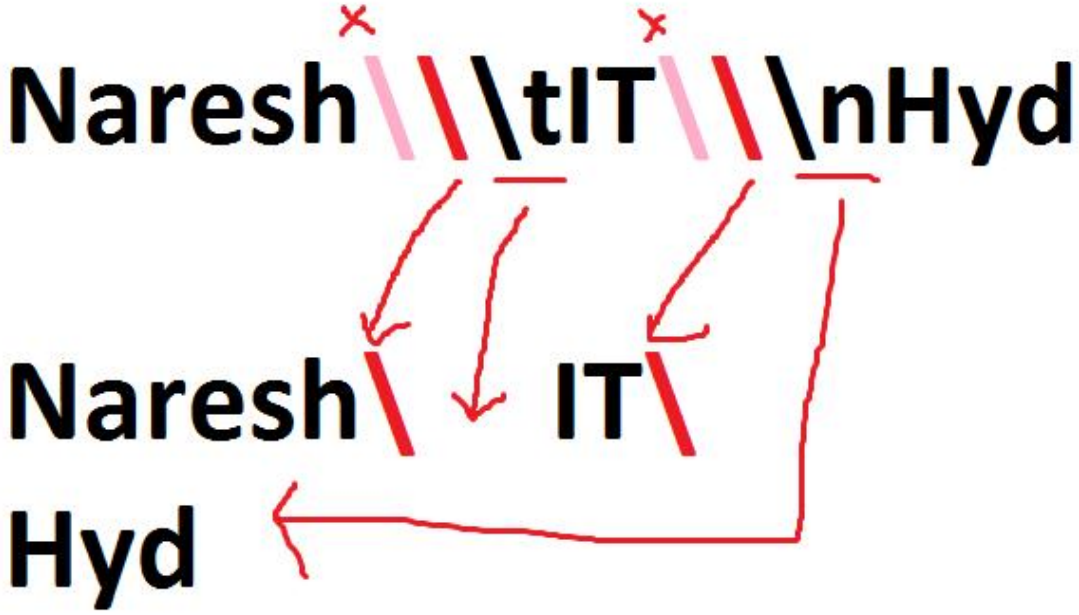

TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 11 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("\aKishore\0Naidu");
printf("\nNaresh\tIT\n");
printf("S\b\vAmeerpet\f\n");
printf("Sec-500016\rHyd");
getch();
printf("\a");
}

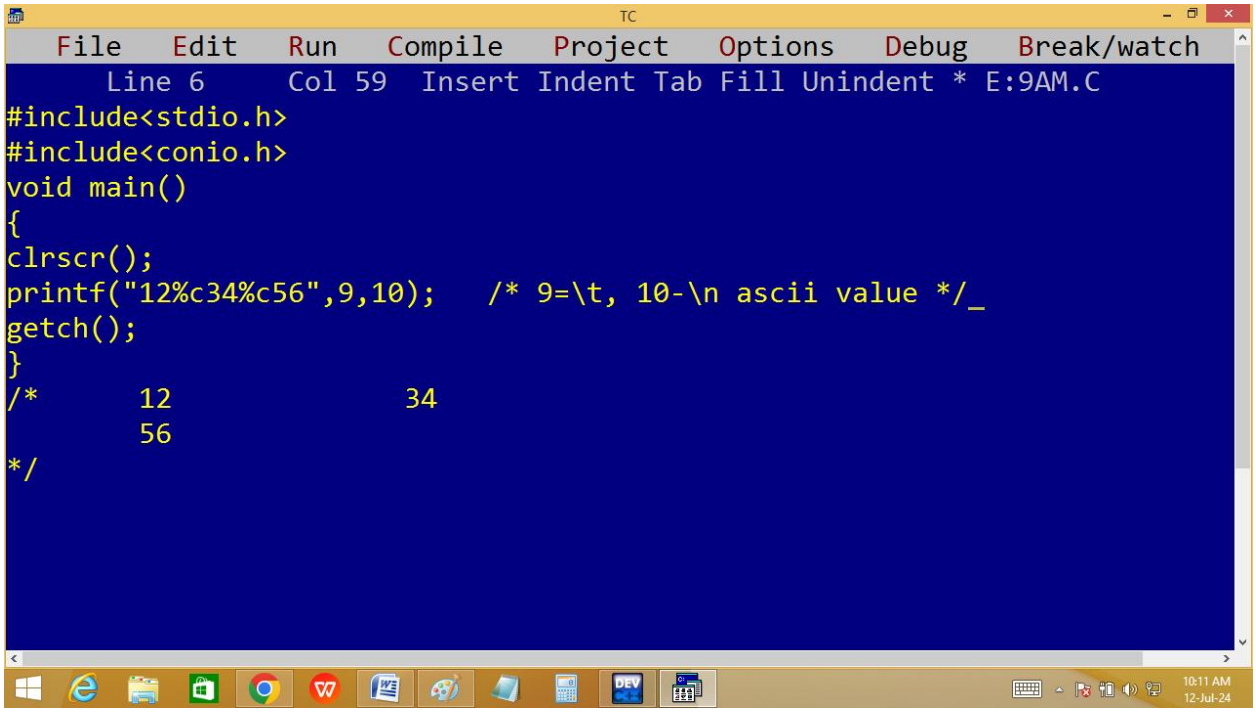

TC
Kishore
Naresh IT
♂Ameerpet♀
Hyd-500016

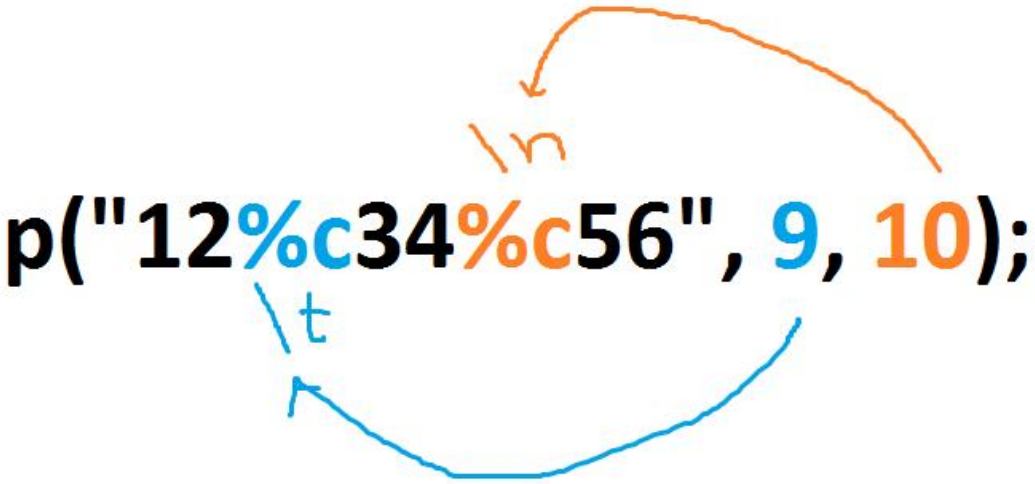

TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 23 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Naresh\\tIT\\nHyd");
getch();
}
/* Naresh\tIT\nHyd */


Naresh\\tIT\\nHyd
Naresh\tIT\nHyd

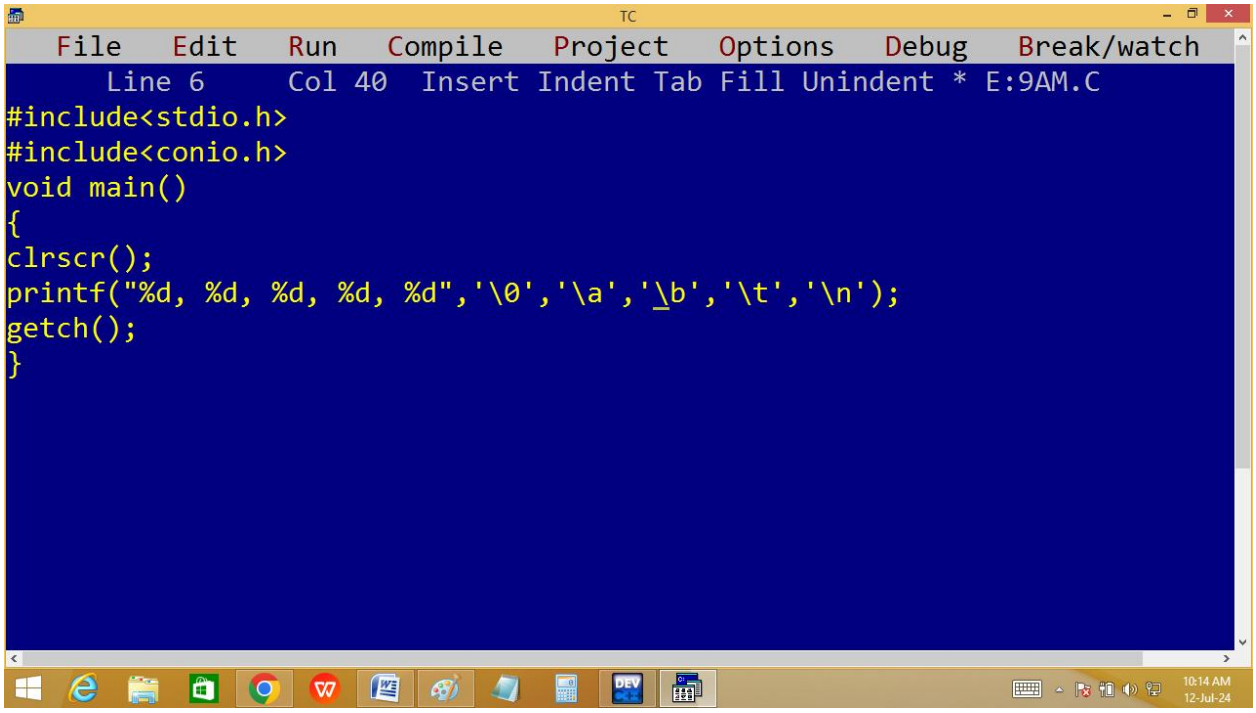

TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Naresh\\\tIT\\\nHyd");
getch();
}
/* Naresh\ IT\
Hyd
*/

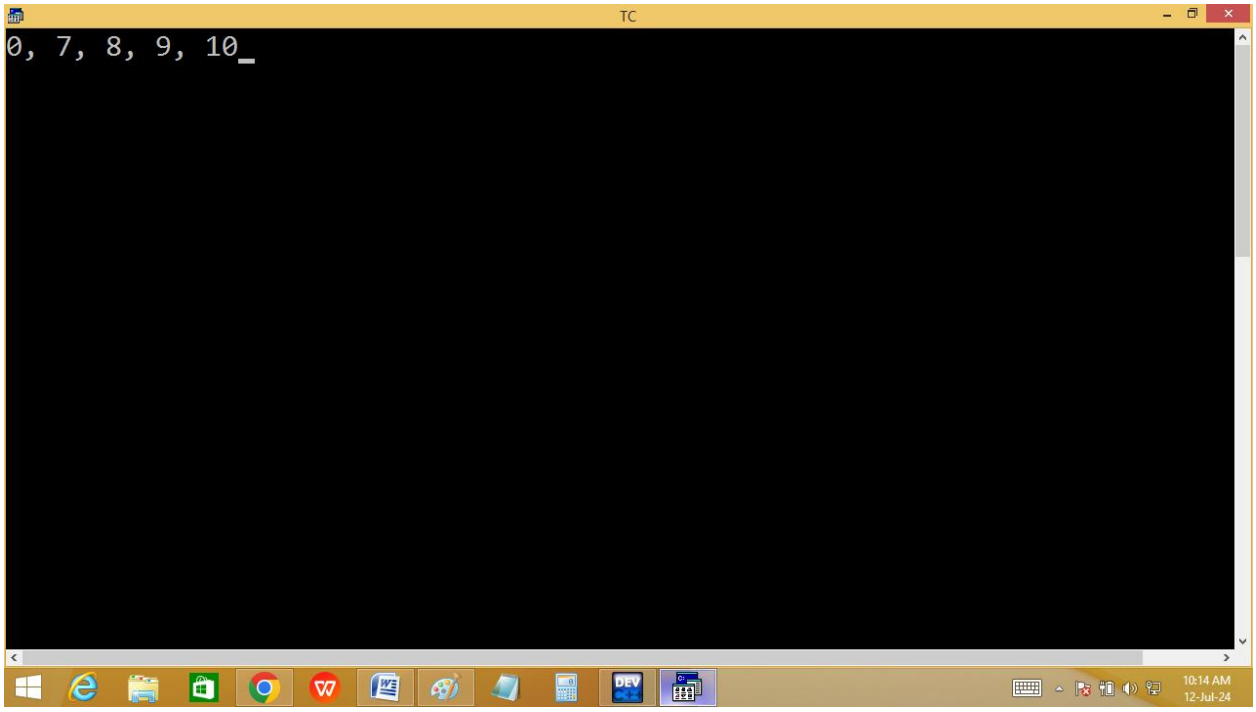

Naresh\\\tIT\\\nHyd
Naresh\ IT\
Hyd

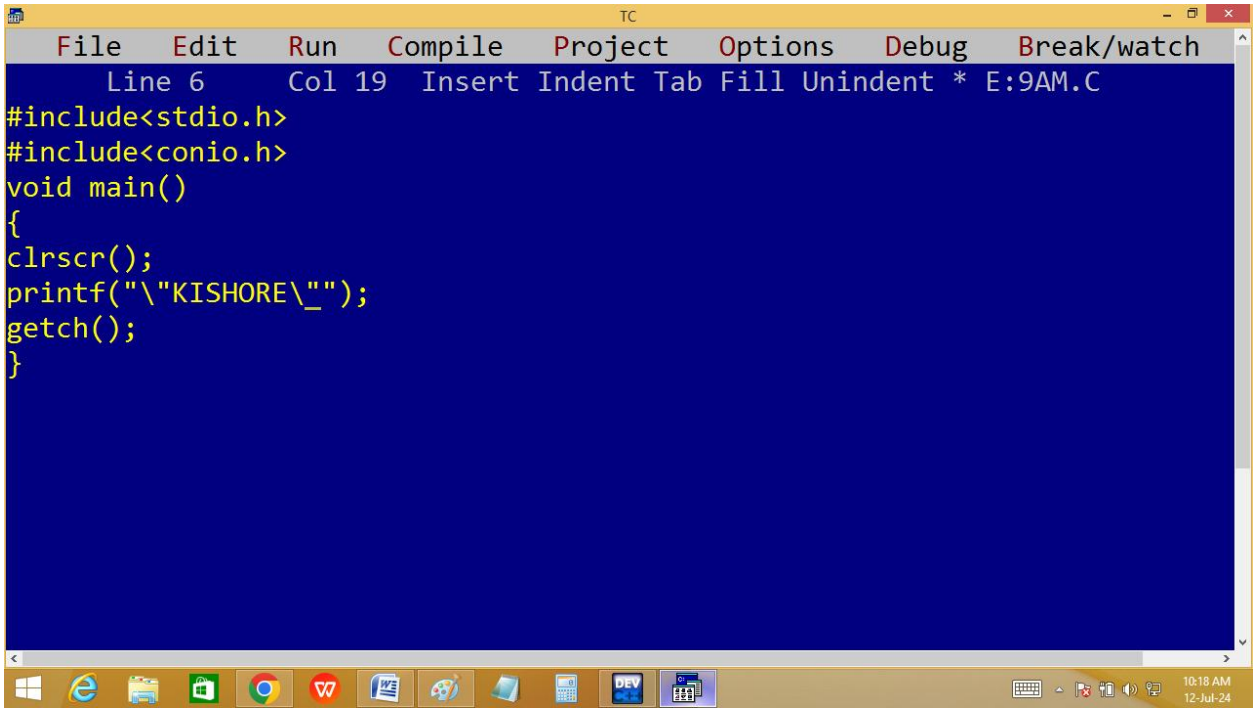


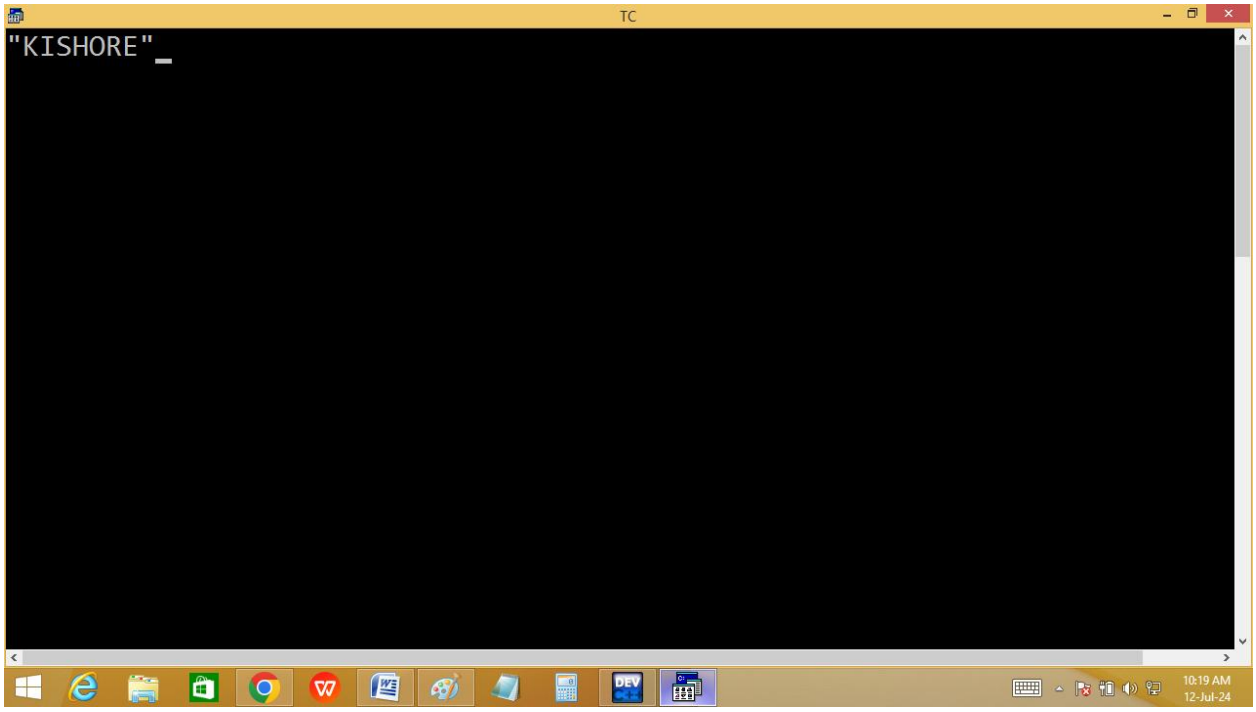


Finding ascii values:

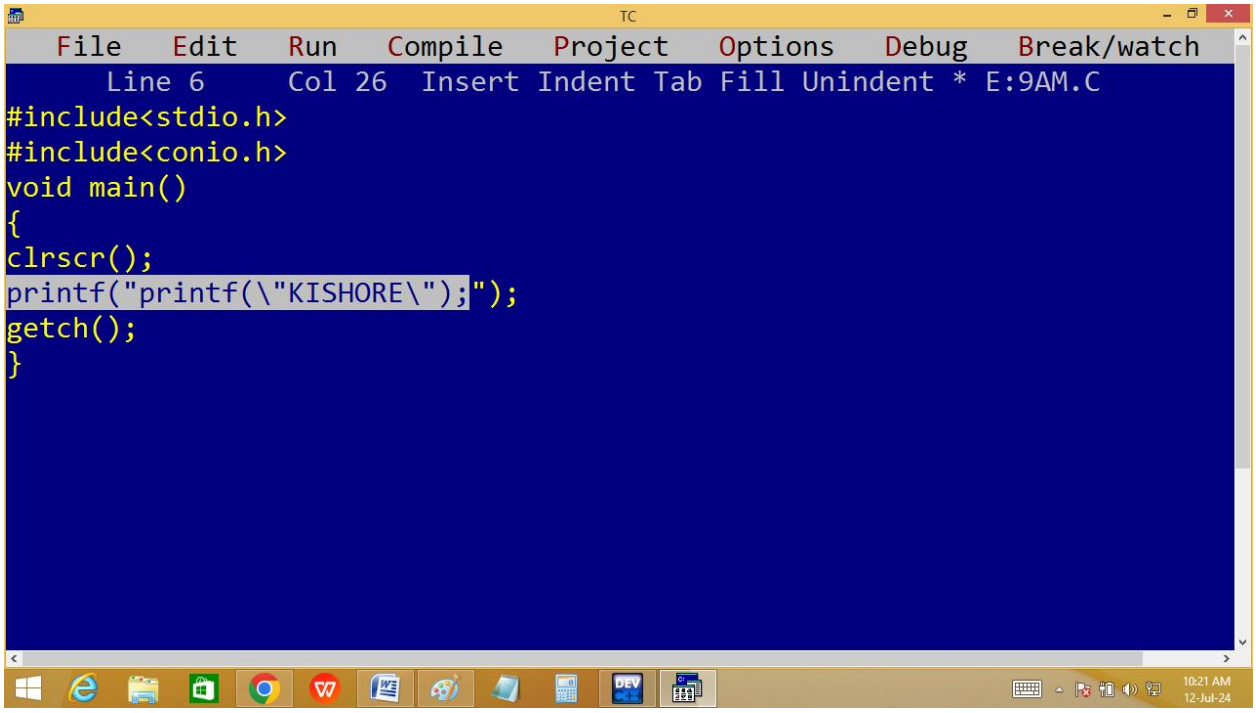

TC
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 40 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d, %d, %d, %d, %d",'\0','\a','\b','\t','\n');
getch();
}

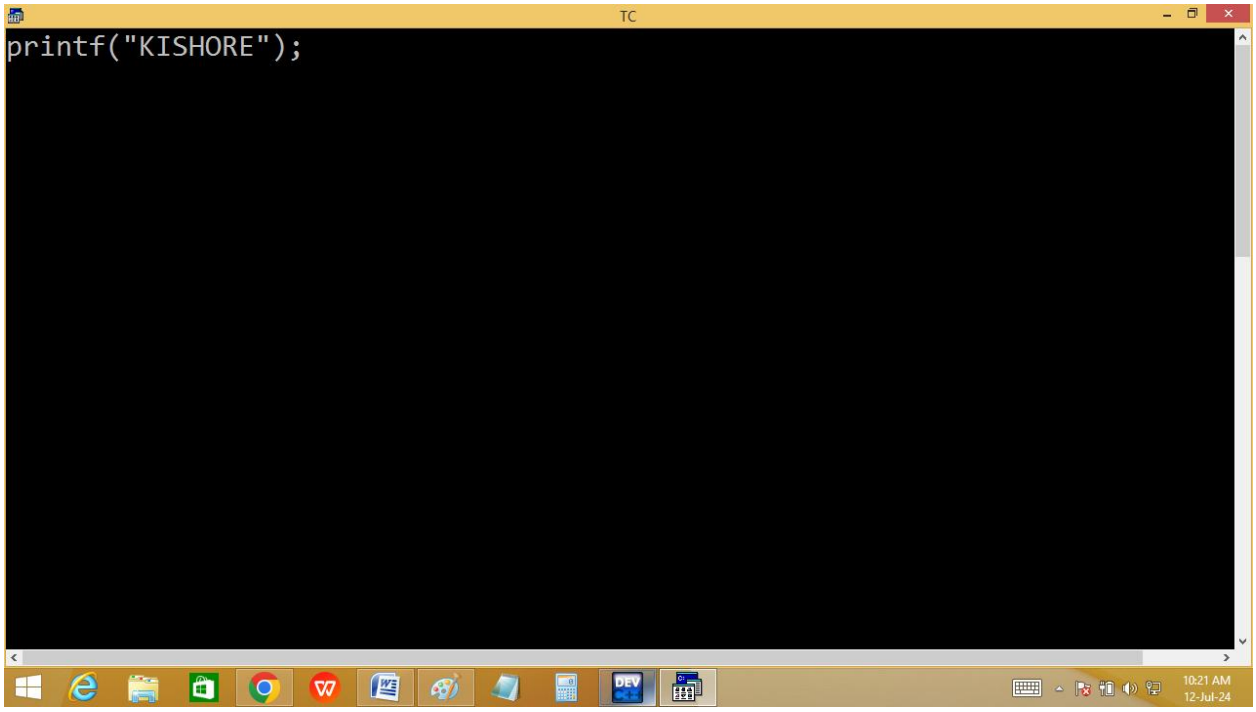

TC
0, 7, 8, 9, 10


TC
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 19 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("\"KISHORE\"");
getch();
}
10:18 AM
12-Jul-24

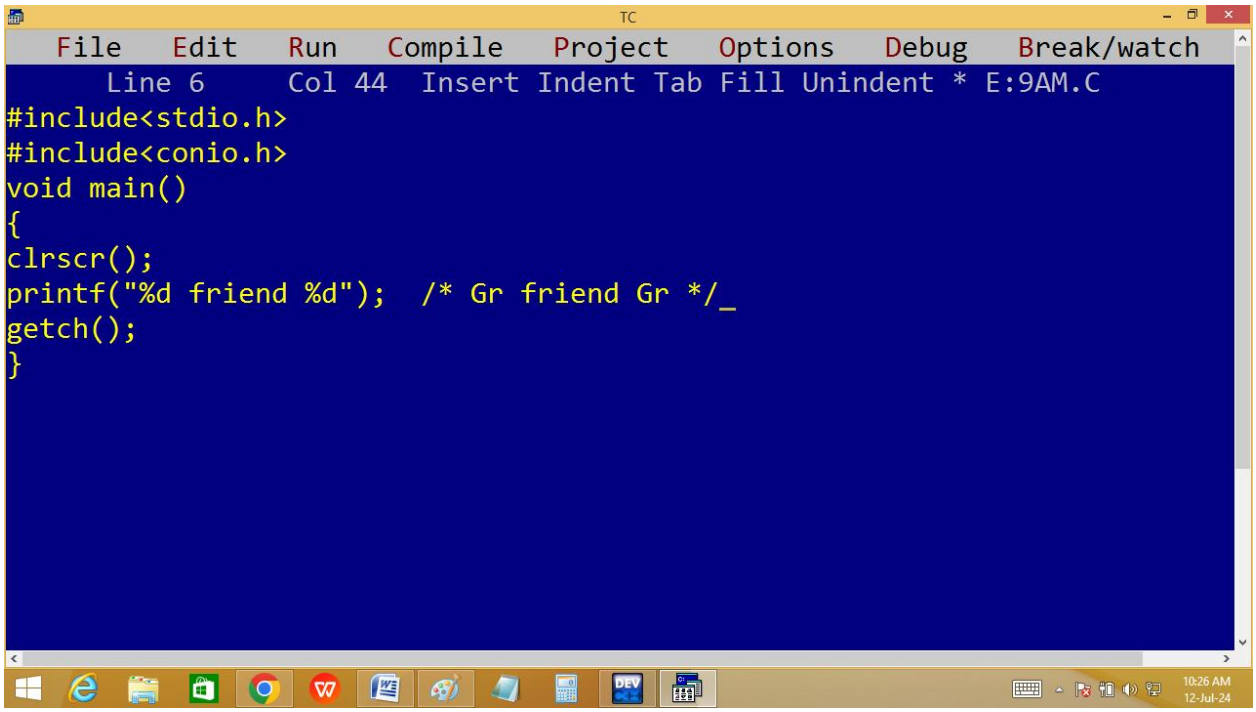

TC
"KISHORE"
10:19 AM
12-Jul-24

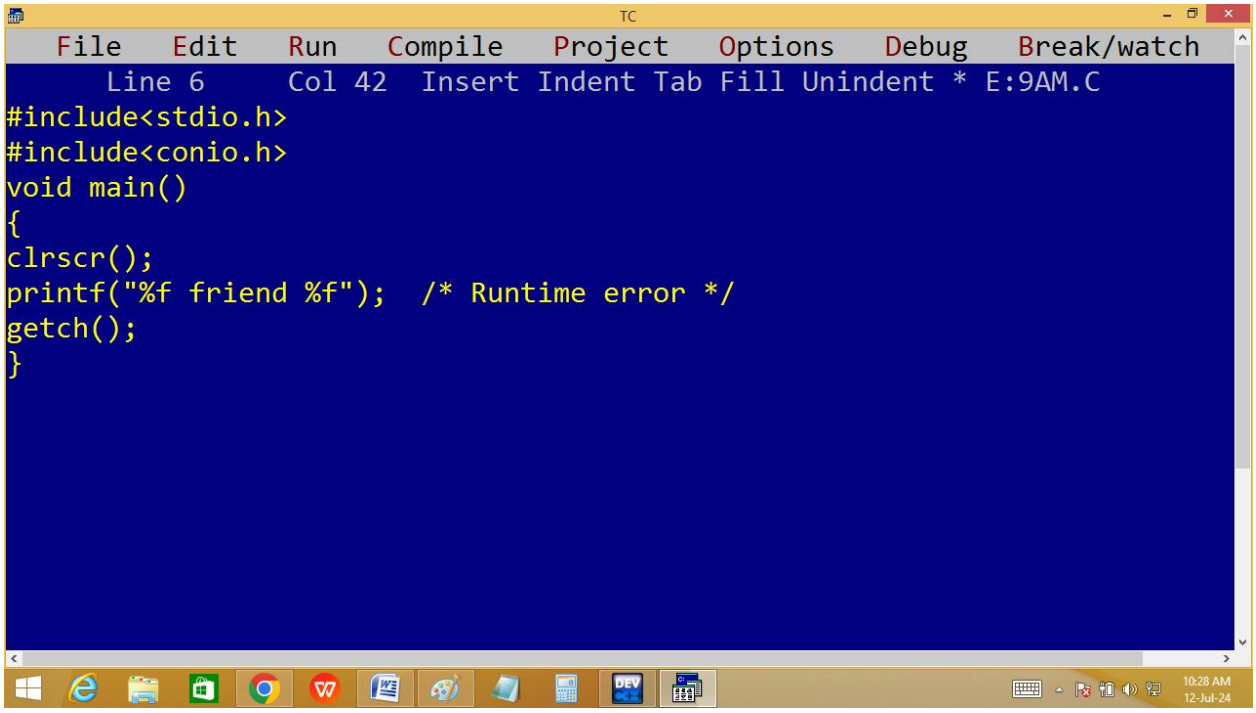
```
p("\"kishore\"");
```

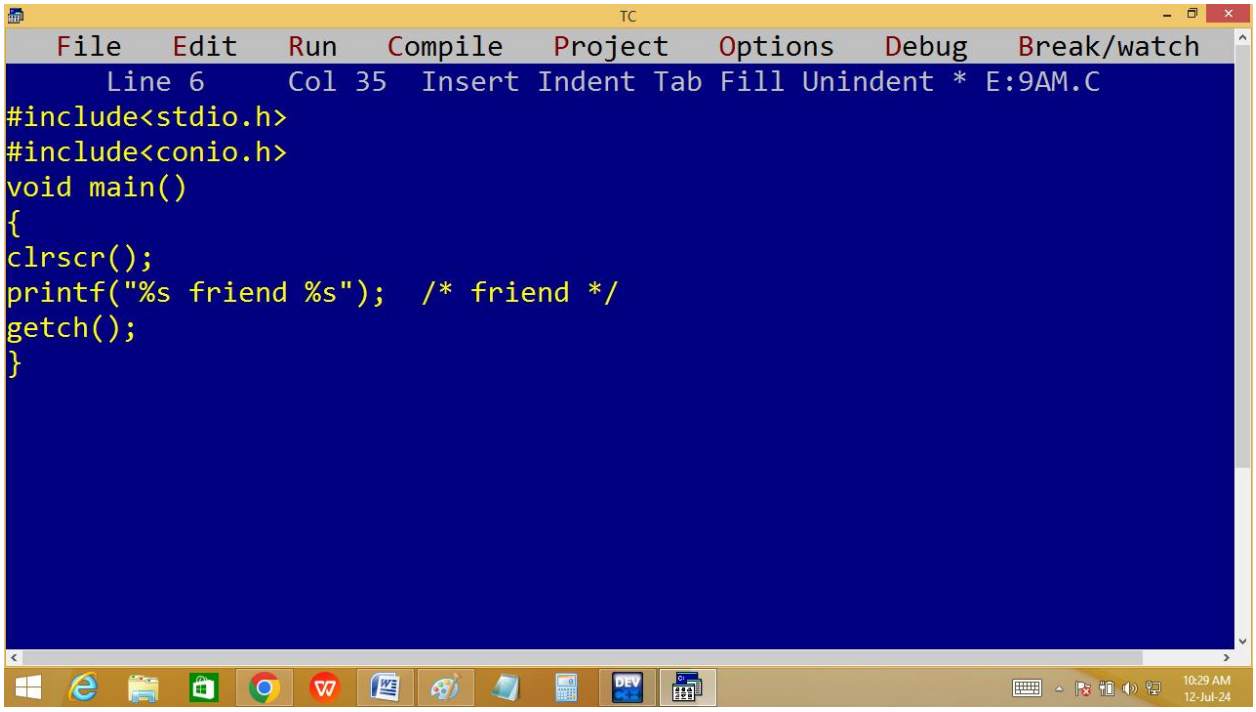

TC
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 26 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("printf(\"KISHORE\");");
getch();
}
10:21 AM
12-Jul-24

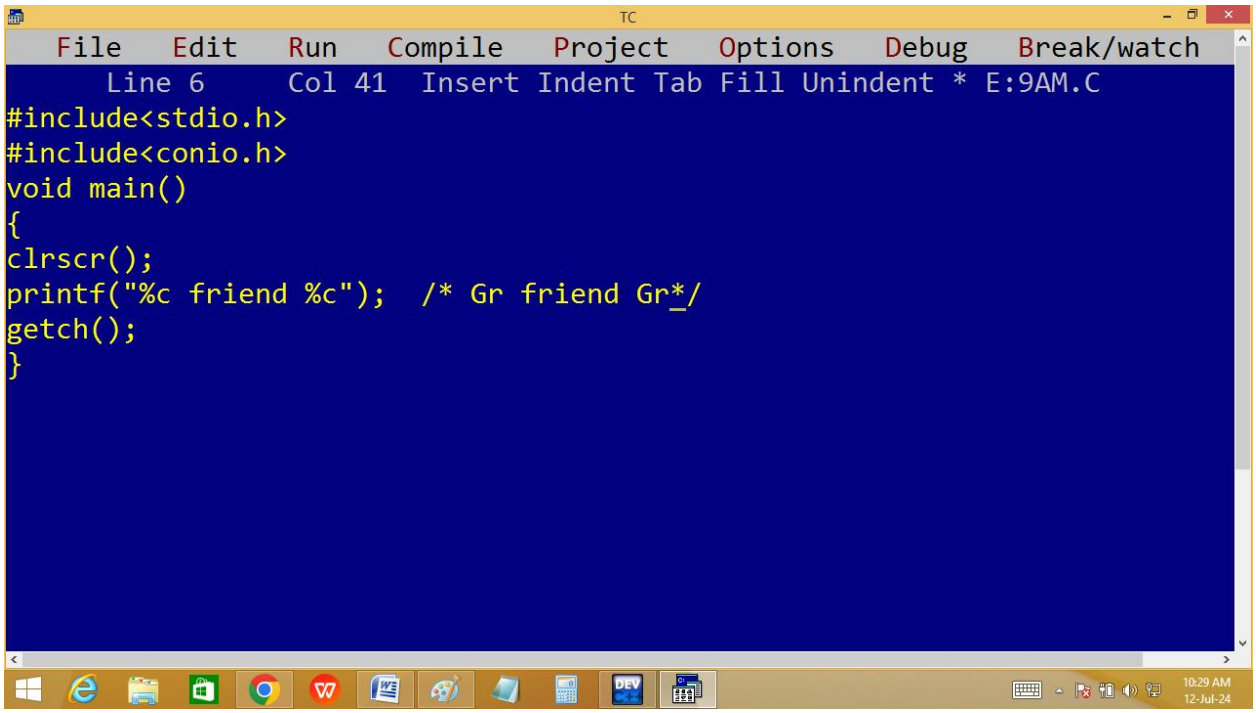

TC
printf("KISHORE");
10:21 AM
12-Jul-24

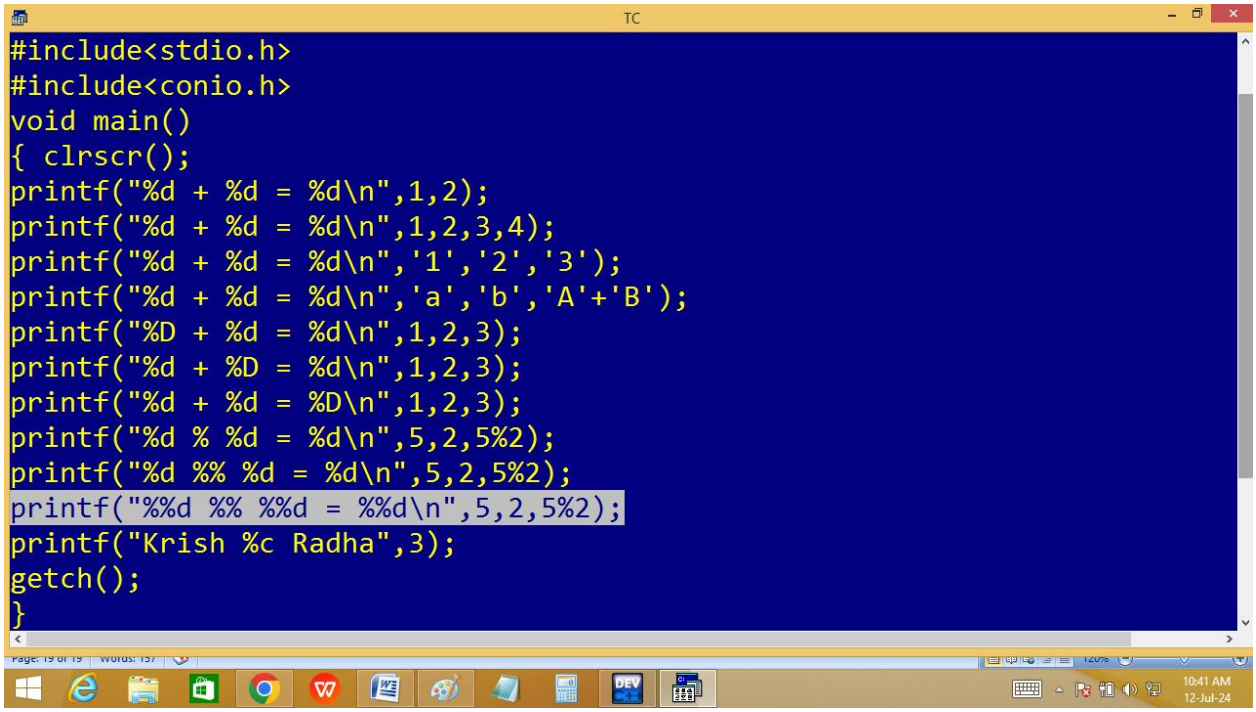
printf("printf(\"KISHORE\");");

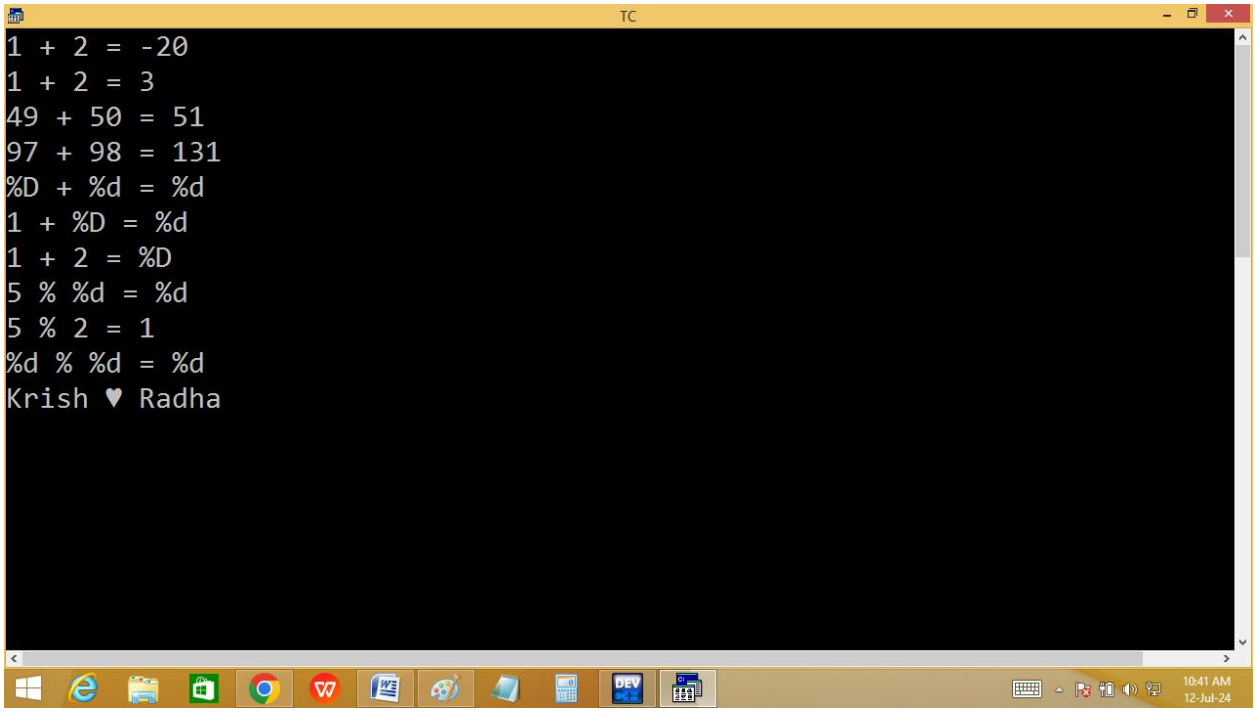



TC
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 42 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%f friend %f"); /* Runtime error */
getch();
}
10:28 AM
12-Jul-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 35 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%s friend %s"); /* friend */
getch();
}
10:29 AM
12-Jul-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 41 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%c friend %c"); /* Gr friend Gr*/
getch();
}


TC
#include<stdio.h>
#include<conio.h>
void main()
{ clrscr();
printf("%d + %d = %d\n",1,2);
printf("%d + %d = %d\n",1,2,3,4);
printf("%d + %d = %d\n",'1','2','3');
printf("%d + %d = %d\n",'a','b','A'+'B');
printf("%D + %d = %d\n",1,2,3);
printf("%d + %D = %d\n",1,2,3);
printf("%d + %d = %D\n",1,2,3);
printf("%d % %d = %d\n",5,2,5%2);
printf("%d %% %d = %d\n",5,2,5%2);
printf("%%d %% %%d = %%d\n",5,2,5%2);
printf("Krish %c Radha",3);
getch();
}


TC
1 + 2 = -20
1 + 2 = 3
49 + 50 = 51
97 + 98 = 131
%D + %d = %d
1 + %D = %d
1 + 2 = %D
5 % %d = %d
5 % 2 = 1
%d % %d = %d
Krish ♥ Radha
10:41 AM
12-Jul-24