

Finding vowel / consonant:

```
TC
Line 19 Col 50 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char ch;
clrscr();
printf("Enter an alphabet "); scanf("%c",&ch);
if(ch>='A'&&ch<='Z')ch+=32;
if(ch>='a'&& ch<='z')
{
switch(ch)
{
case 'a':case 'e': case 'i': case 'o': case 'u': puts("Vowel"); break;
default: puts("Consonant");
}
}
else puts("It is not alphabet");
getch();
}

TC
Enter an alphabet E
Vowel

Page: 1 of 1 Words: 4 160% 9:26 AM 29-Jul-24
```

```
TC
Enter an alphabet g
Consonant
```

```
TC
Enter an alphabet 7
It is not alphabet
```

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
char ch;
clrscr();
printf("Enter an alphabet "); scanf("%c",&ch);
if(ch>='A'&&ch<='Z')ch+=32;
if(ch>='a'&& ch<='z')
{
switch(ch)
{
case 'a':case 'e': case 'i': case 'o': case 'u': puts("Vowel"); break;
default: puts("Consonant");
}
}
else if(ch>='0' && ch<='9')puts("It is a digit");
else puts("It is a special char");
getch();
}

TC
Enter an alphabet 9
It is a digit
```

```
TC
Enter an alphabet *
It is a special char
```

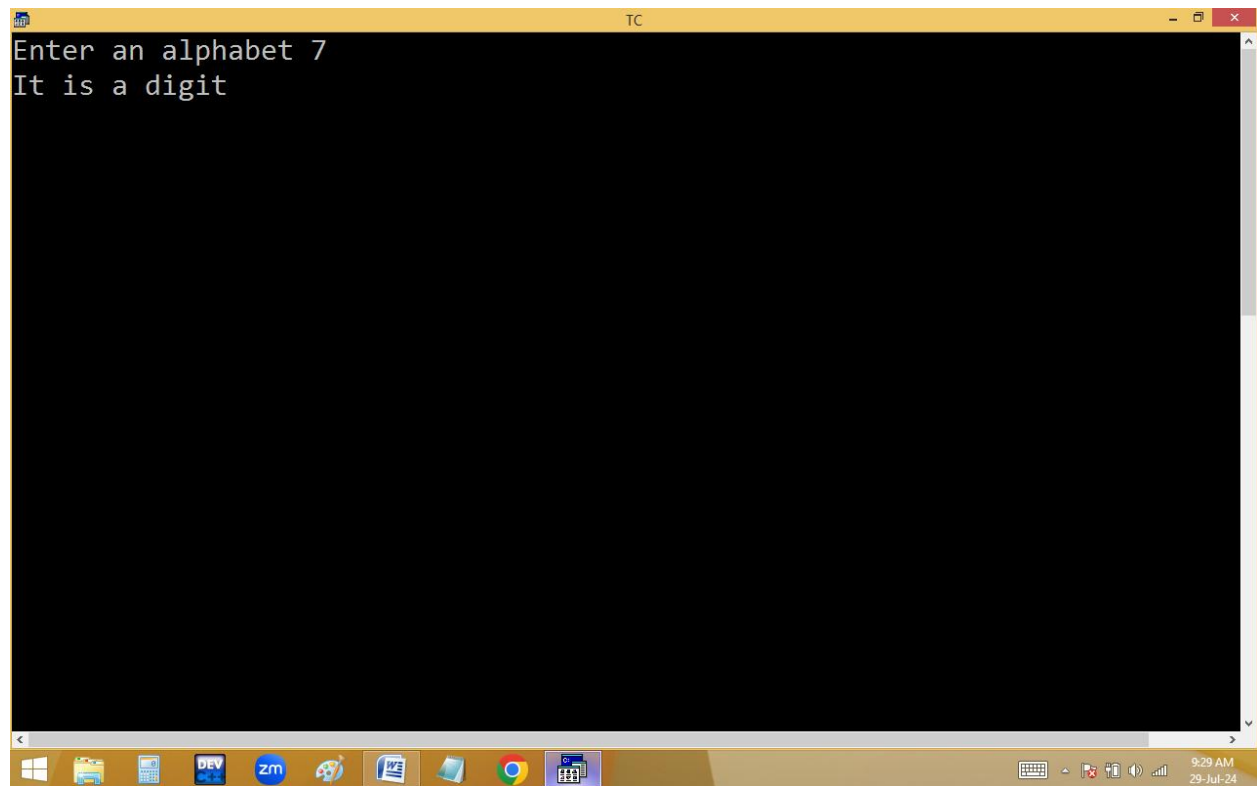
```
TC
Enter an alphabet i
Vowel
```

Using predefined functions:

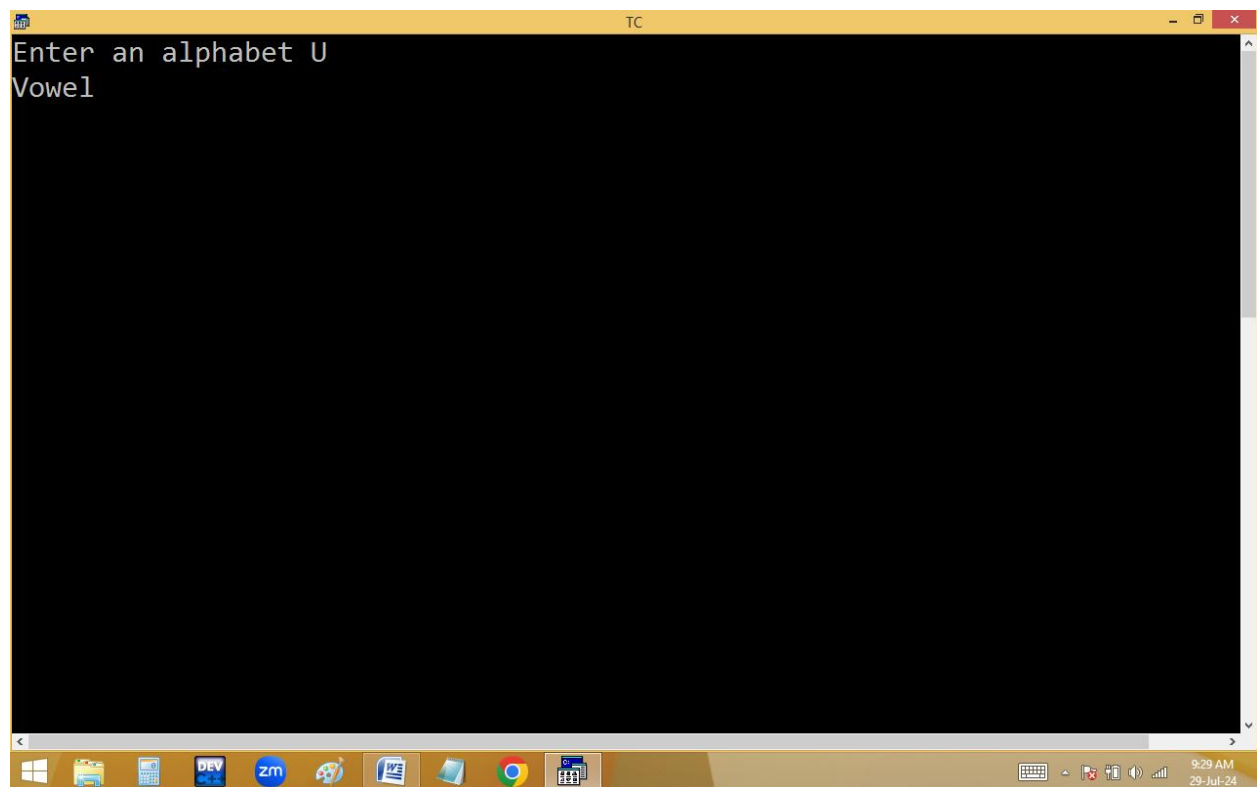
```
TC
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
void main()
{
char ch;
clrscr();
printf("Enter an alphabet "); scanf("%c",&ch);
ch=tolower(ch);
if(isalpha(ch))
{
switch(ch)
{
case 'a':case 'e': case 'i': case 'o': case 'u': puts("Vowel"); break;
default: puts("Consonant");
}
}
else if(isdigit(ch))puts("It is a digit");
else puts("It is a special char");
getch();}

TC
Enter an alphabet H
Consonant
```

```
TC
Enter an alphabet 7
It is a digit
```



```
TC
Enter an alphabet U
Vowel
```



Read two numbers and perform arithmetic operation using a menu with switch.

Enter two numbers 3 5
M E N U
+ . ADD - . SUB * . MUL %. MOD /. DIV E . EXIT
Enter ur option [+]
Sum = 8

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
#include<stdlib.h>

void main()
{
float a,b;
char op;
start:
clrscr();
puts("-----");
printf("Enter two numbers "); scanf("%f %f",&a, &b);
puts("-----");
```



```

puts("\t\t\t M E N U");

puts("-----");

puts("\t\t\t +. Add");

puts("\t\t\t -. Sub");

puts("\t\t\t *. Mul");

puts("\t\t\t %. Mod");

puts("\t\t\t /. Div");

puts("\t\t\t E. Exit");

puts("-----");

flushall(); /* fflush(stdin); */

printf("\t\t\t Enter Ur option[ ]\b\b"); scanf(" %c",&op);

gotoxy(60,18);

switch(op)

{

case '+': printf("Sum=%.2f",a+b);break;

case '-': printf("Sub=%.2f",a-b);break;

case '*': printf("Mul=%.2f",a*b);break;

case '%': printf("Mod=%.2f",fmod(a,b));break;

case '/': printf("Div=%.2f",a/b);break;

case 'e': case 'E': exit(0);break;

default: puts("Invalid Option");

}

getch();

goto start;

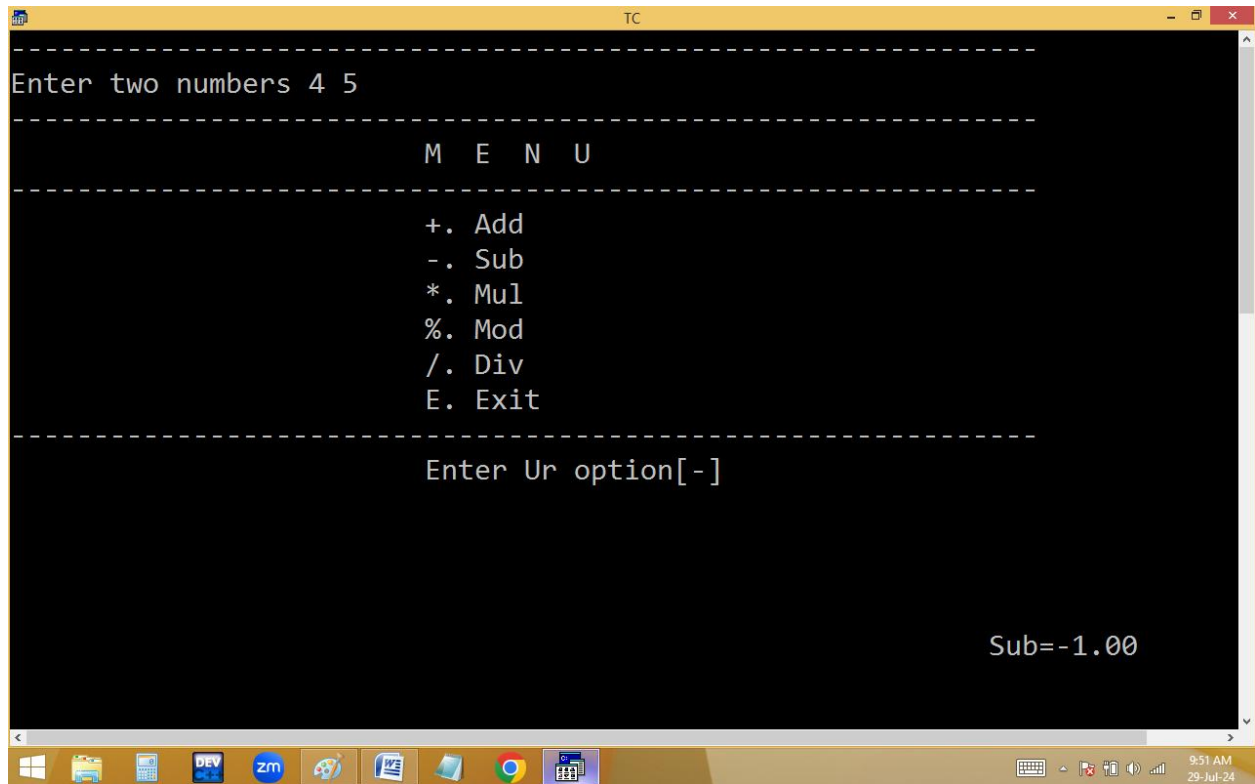
}

```

```
TC
-----
Enter two numbers 3 4
-----
M E N U
-----
+. Add
-. Sub
*. Mul
%. Mod
/. Div
E. Exit
-----
Enter Ur option[e]
```

```
TC
-----
Enter two numbers 3.3 2.7
-----
M E N U
-----
+. Add
-. Sub
*. Mul
%. Mod
/. Div
E. Exit
-----
Enter Ur option[%]

Mod=0.60_
```



Hotel bill generation:

```
#include<stdio.h>

#include<conio.h>

void main()

{

int op; float qty, price,amt=0;

start:

clrscr();

puts("-----");

puts("\t\t\t HOTEL SAI BALAJI");

puts("\t\t\t AMEERPET - HYD ");

puts("-----");

puts("\t\t\t 1. Tea - 10/-");
```

```

puts("\t\t\t 2. Coffee/Milk/Boost/Lemon Tea/Water Bottle - 20/-");
puts("\t\t\t 3. Idly/Upma/Bonda/Poha/Plain Dosa - 30/-");
puts("\t\t\t 4. Onion/Masala/ Sambar idly/poori - 40/-");
puts("\t\t\t 5. Sambar wada / Paneer Dosa / Veg Biryani - 50/-");
puts("\t\t\t 6. Bill");
puts("\t\t\t 7. Cancel");
puts("\t\t\t 8. Close");

puts("-----");
printf("\t\t\t Enter Ur option[ ]\b\b"); scanf("%d",&op);
if(op>=1 && op<=5){printf("Enter quantity "); scanf("%f",&qty);}
switch(op)
{
case 1: amt = amt + qty * 10; break;
case 2: amt = amt + qty * 20; break;
case 3: amt = amt + qty * 30; break;
case 4: amt = amt + qty * 40; break;
case 5: amt = amt + qty * 50; break;
case 6: printf("Ur billed amount is %.2f",amt); getch();amt=0;break;
case 7: printf("Ur order cancelled"); getch(); amt=0;break;
case 8: return;
default: puts("Invalid Option");
}
goto start;
}

```

The image shows a screenshot of a Turbo C++ (TC) IDE. The top window is the code editor, which has a blue background and displays the following C code:

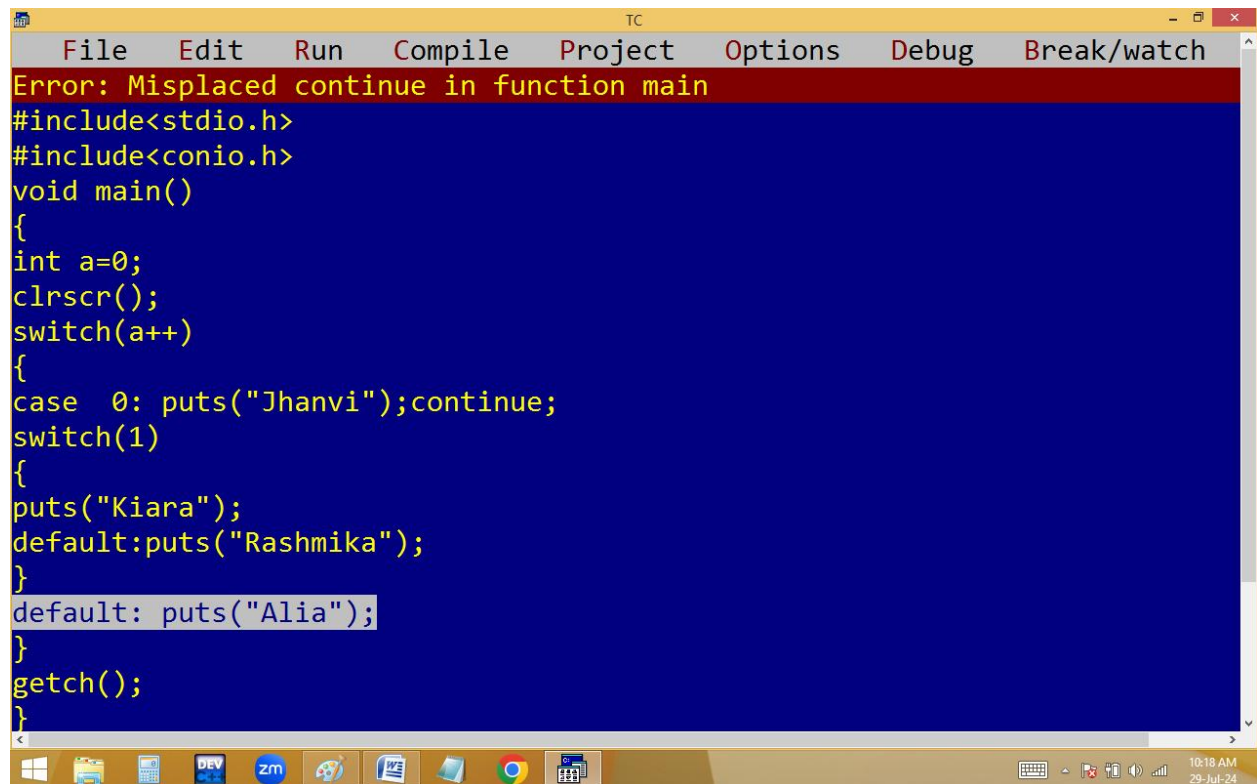
```
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 1 Insert Indent Tab Fill Unindent E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0;
clrscr();
switch(a++)
{
case 0: puts("Jhanvi");
switch(1)
{
puts("Kiara");
default:puts("Rashmika");
}
default: puts("Alia");
}
getch();
}
```

The code is a C program that uses a switch statement to print names based on the value of a variable 'a'. The variable 'a' is initialized to 0. The switch statement has three cases: 'case 0' prints "Jhanvi", 'switch(1)' prints "Kiara", and 'default' prints "Alia". The variable 'a' is incremented after each case. The program uses 'clrscr()' to clear the screen and 'getch()' to wait for a key press before exiting.

The bottom window is the output console, which has a black background and displays the output of the program:

```
Jhanvi
Rashmika
Alia
```

The output shows the names "Jhanvi", "Rashmika", and "Alia" printed on three separate lines, corresponding to the three cases in the switch statement.



The image shows a screenshot of a Turbo C++ (TC) IDE window. The title bar reads "TC". The menu bar includes "File", "Edit", "Run", "Compile", "Project", "Options", "Debug", and "Break/watch". A red error message banner at the top states "Error: Misplaced continue in function main". The code editor contains the following C code:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0;
clrscr();
switch(a++)
{
case 0: puts("Jhanvi");continue;
switch(1)
{
puts("Kiara");
default:puts("Rashmika");
}
default: puts("Alia");
}
getch();
}
```

The code has a syntax error: a 'continue' statement is used inside a nested 'switch' block, which is not allowed. The Windows taskbar at the bottom shows various application icons and the system clock indicating 10:18 AM on 29-Jul-24.

The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the code editor, titled 'TC', with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 7, Col 11, Insert, Indent, Tab, Fill, Unindent, * E:9AM.C). The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0;
clrscr();
switch(a++)
{
case 0: puts("Jhanvi");
switch(a++)
{
case 1: puts("Kiara");
default:puts("Rashmika");
}
default: puts("Alia");
}
getch();
}
```

The bottom window is the output console, also titled 'TC', which displays the output of the program:

```
Jhanvi
Kiara
Rashmika
Alia
```

The Windows taskbar at the bottom shows the time as 10:19 AM on 29-Jul-24, along with various system icons and application icons in the taskbar.

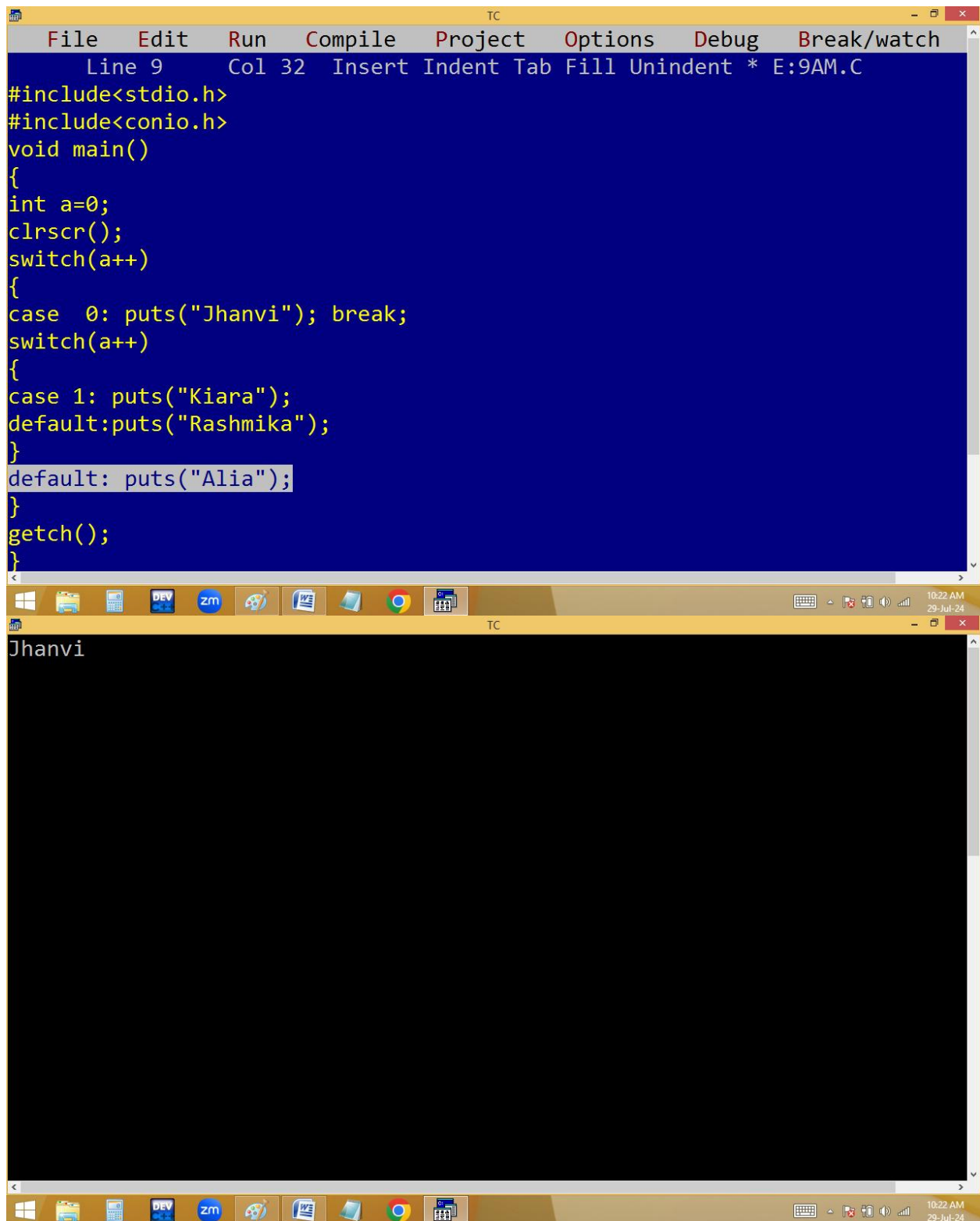
The image shows a screenshot of a Turbo C++ (TC) IDE. The top window is the code editor, titled 'TC', with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 12, Col 30, Insert, Indent, Tab, Fill, Unindent, E:9AM.C). The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0;
clrscr();
switch(a++)
{
case 0: puts("Jhanvi");
switch(a++)
{
case 1: puts("Kiara"); break;
default:puts("Rashmika");
}
default: puts("Alia");
}
getch();
}
```

The bottom window is the output console, also titled 'TC', which displays the output of the program:

```
Jhanvi
Kiara
Alia
```

The Windows taskbar at the bottom of the screen shows the time as 10:21 AM on 29-Jul-24, along with various system icons and application icons in the taskbar.



The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays a C program with the following code:

```
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 32 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=0;
clrscr();
switch(a++)
{
case 0: puts("Jhanvi"); break;
switch(a++)
{
case 1: puts("Kiara");
default:puts("Rashmika");
}
default: puts("Alia");
}
getch();
}
```

The bottom window shows the output of the program, which is "Jhanvi". The taskbar at the bottom includes icons for Windows, File Explorer, DEV C++, Zoom, and other applications. The system clock in the bottom right corner indicates 10:22 AM on 29-Jul-24.