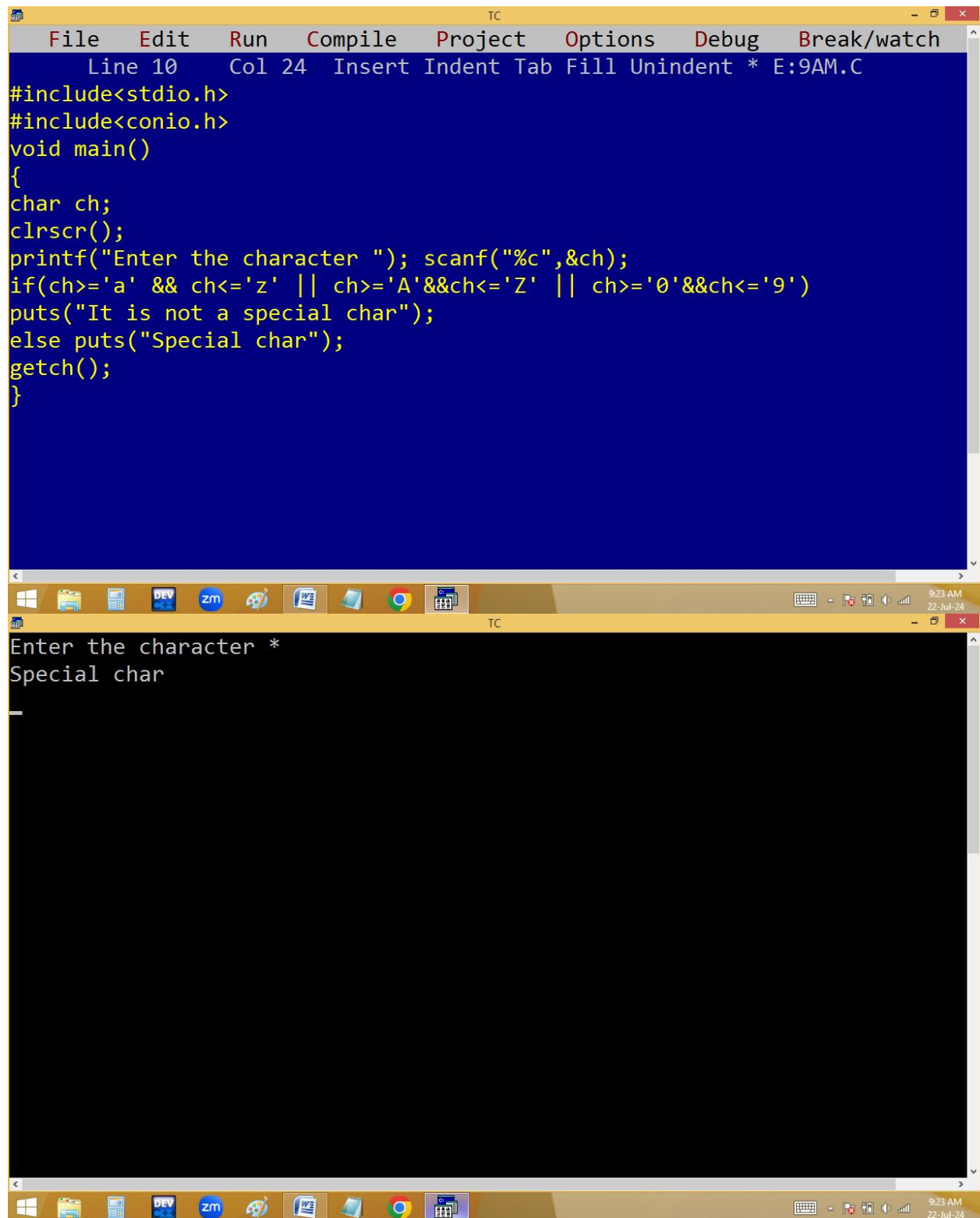


Finding special char or not?



```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 24 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char ch;
clrscr();
printf("Enter the character "); scanf("%c",&ch);
if(ch>='a' && ch<='z' || ch>='A'&&ch<='Z' || ch>='0'&&ch<='9')
puts("It is not a special char");
else puts("Special char");
getch();
}
```

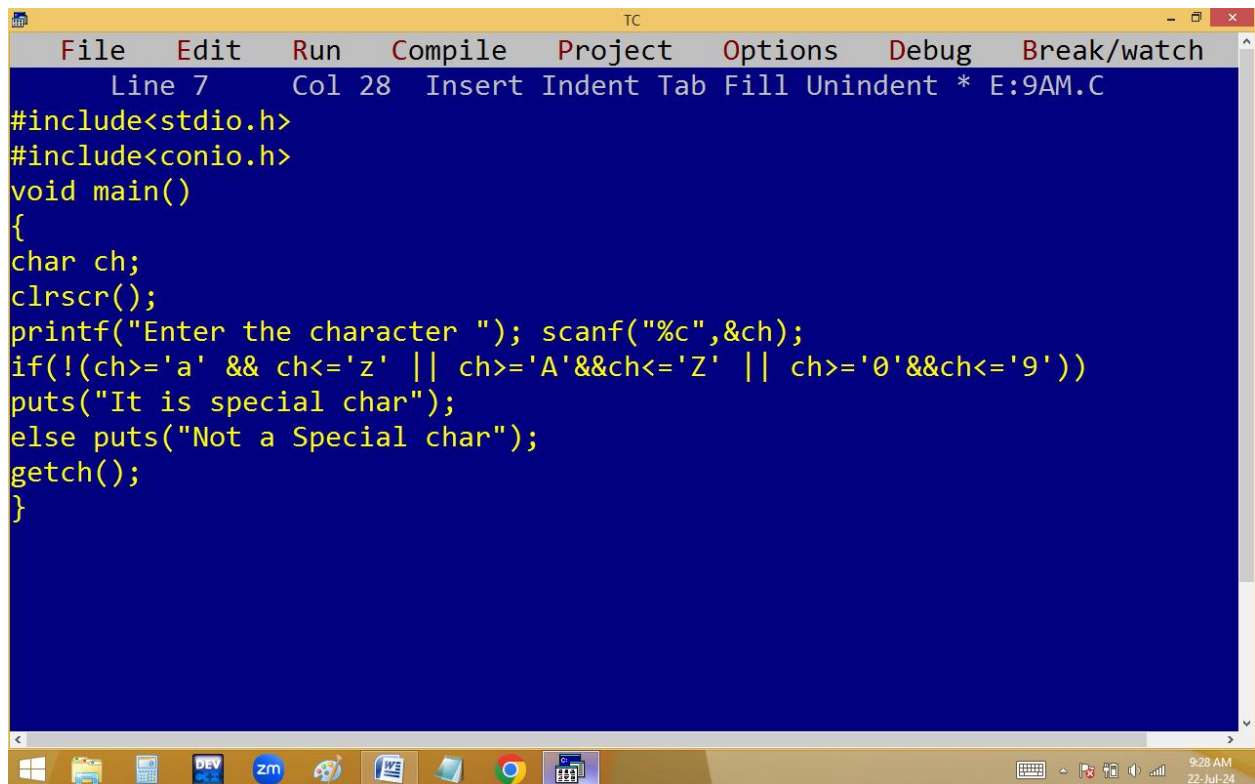
Enter the character *
Special char

```
TC
Enter the character d
It is not a special char
```

```
TC
Enter the character H
It is not a special char
```

```
TC
Enter the character 9
It is not a special char
```

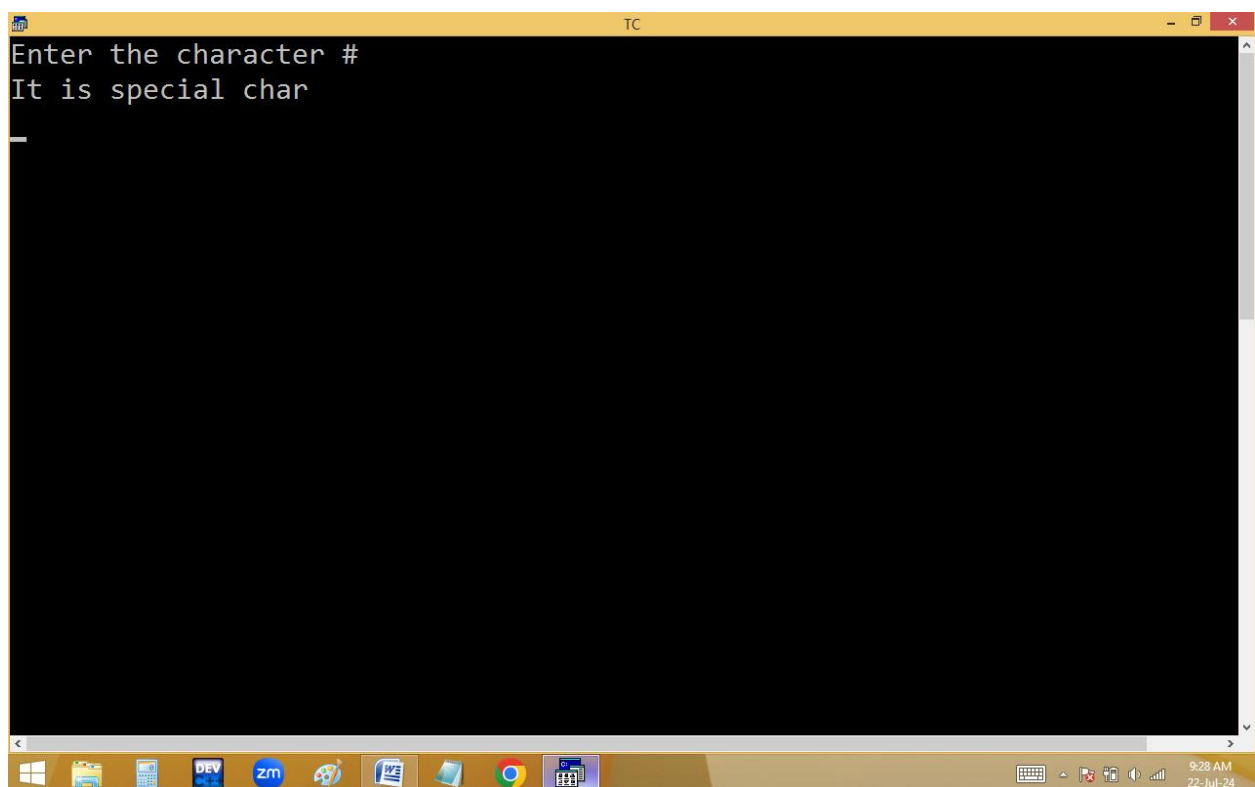
```
TC
Enter the character -9
Special char
```



The screenshot shows the Turbo C++ (TC) IDE with a blue background. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 7', 'Col 28', and 'Insert' mode. The code being edited is as follows:

```
Line 7      Col 28      Insert      Indent      Tab      Fill      Unindent      * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char ch;
clrscr();
printf("Enter the character "); scanf("%c",&ch);
if(!(ch>='a' && ch<='z' || ch>='A'&&ch<='Z' || ch>='0'&&ch<='9'))
puts("It is special char");
else puts("Not a Special char");
getch();
}
```

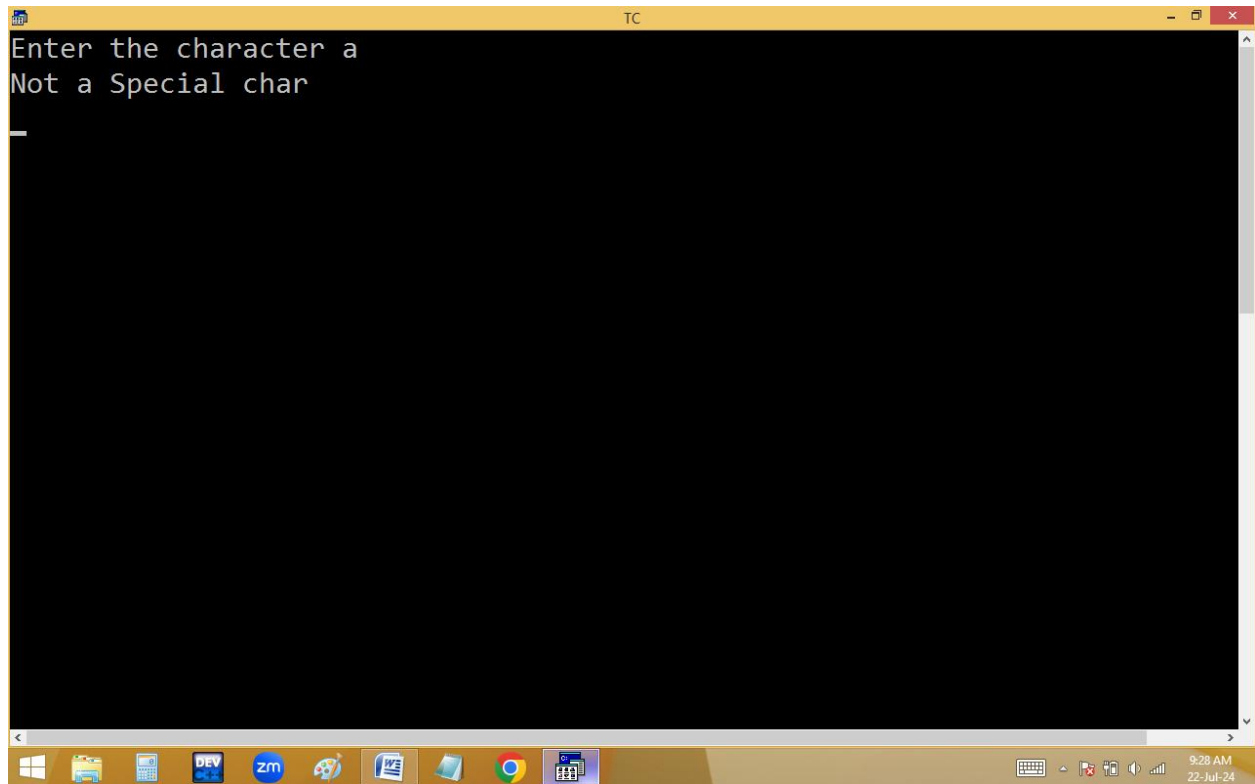
The Windows taskbar at the bottom shows various icons including the Start button, File Explorer, and several application icons. The system clock in the bottom right corner displays '9:28 AM' and '22-Jul-24'.



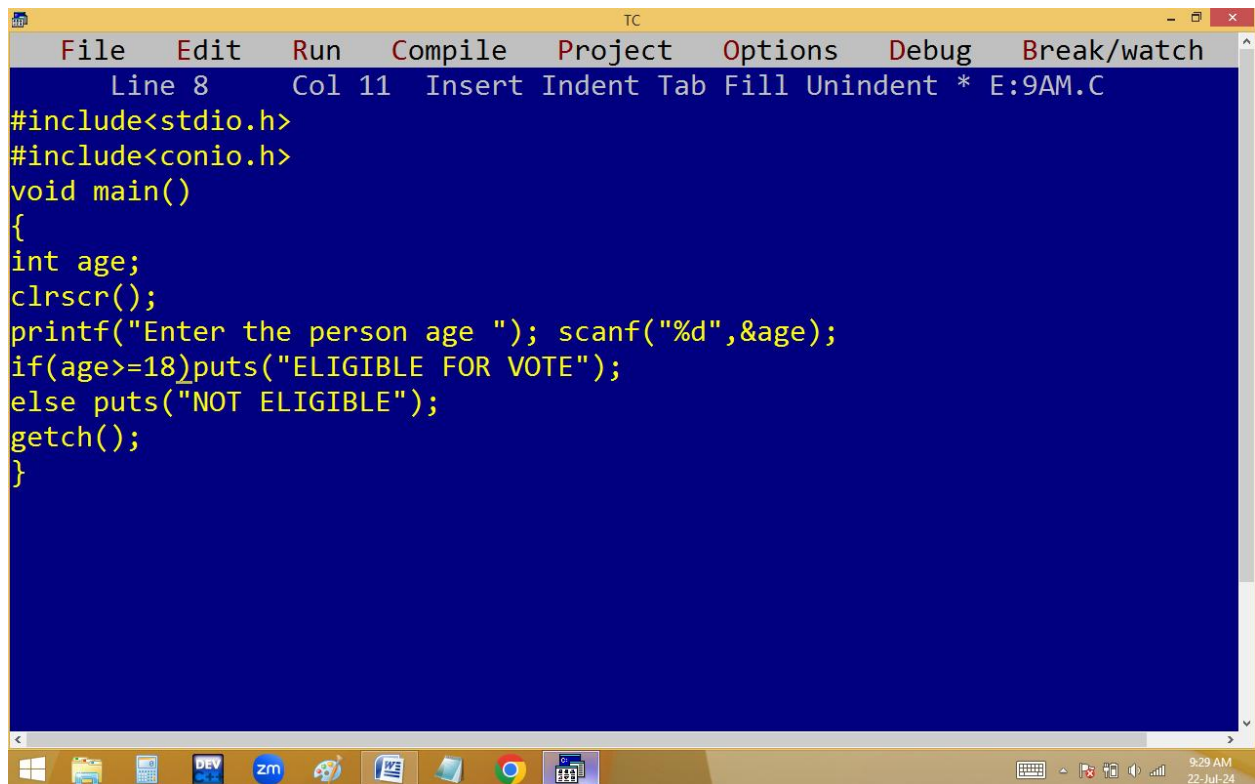
This screenshot shows the same Turbo C++ IDE window after the program has been executed. The output window, which has a black background, displays the following text:

```
Enter the character #
It is special char
```

The rest of the IDE interface, including the menu bar and taskbar, remains the same as in the first screenshot.



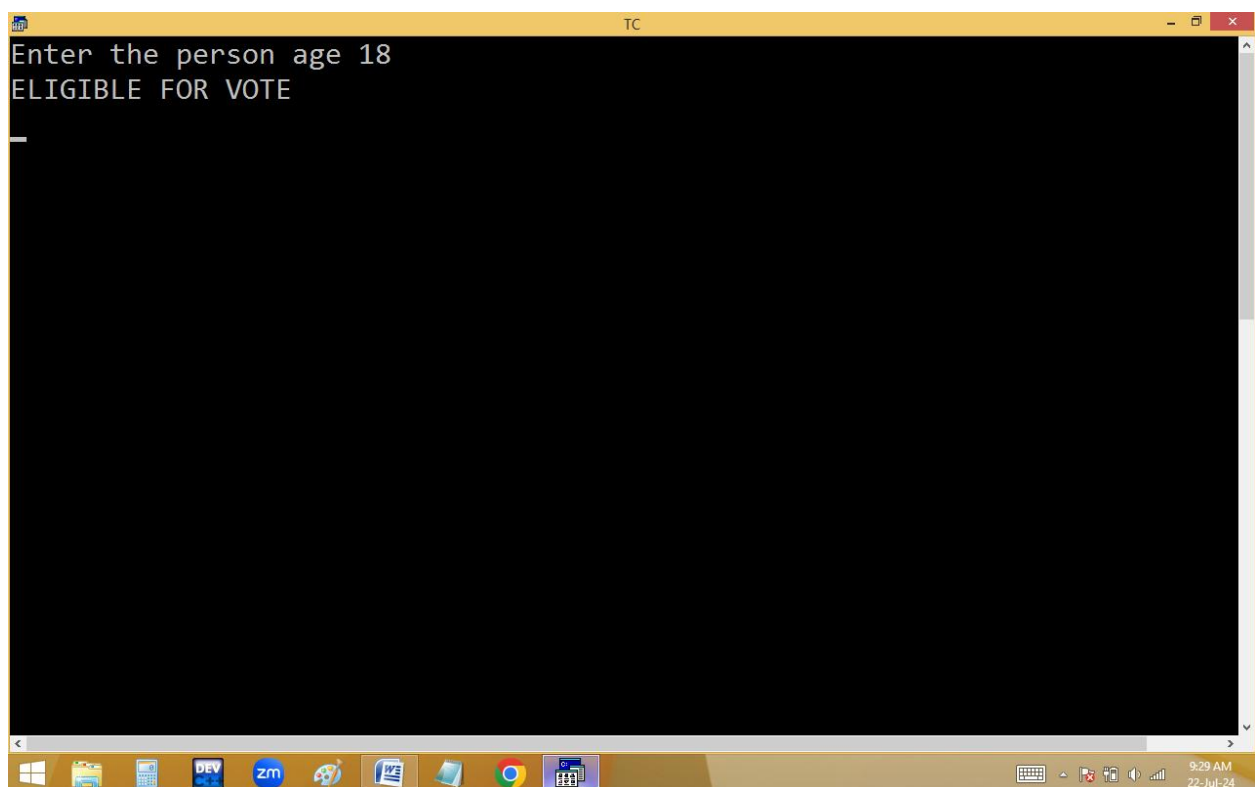
Finding voter eligibility:



The screenshot shows the Turbo C++ (TC) IDE with a yellow title bar and a menu bar containing File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 8 Col 11 Insert Indent Tab Fill Unindent * E:9AM.C'. The main editing area has a blue background and contains the following C code:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int age;
clrscr();
printf("Enter the person age "); scanf("%d",&age);
if(age>=18)puts("ELIGIBLE FOR VOTE");
else puts("NOT ELIGIBLE");
getch();
}
```

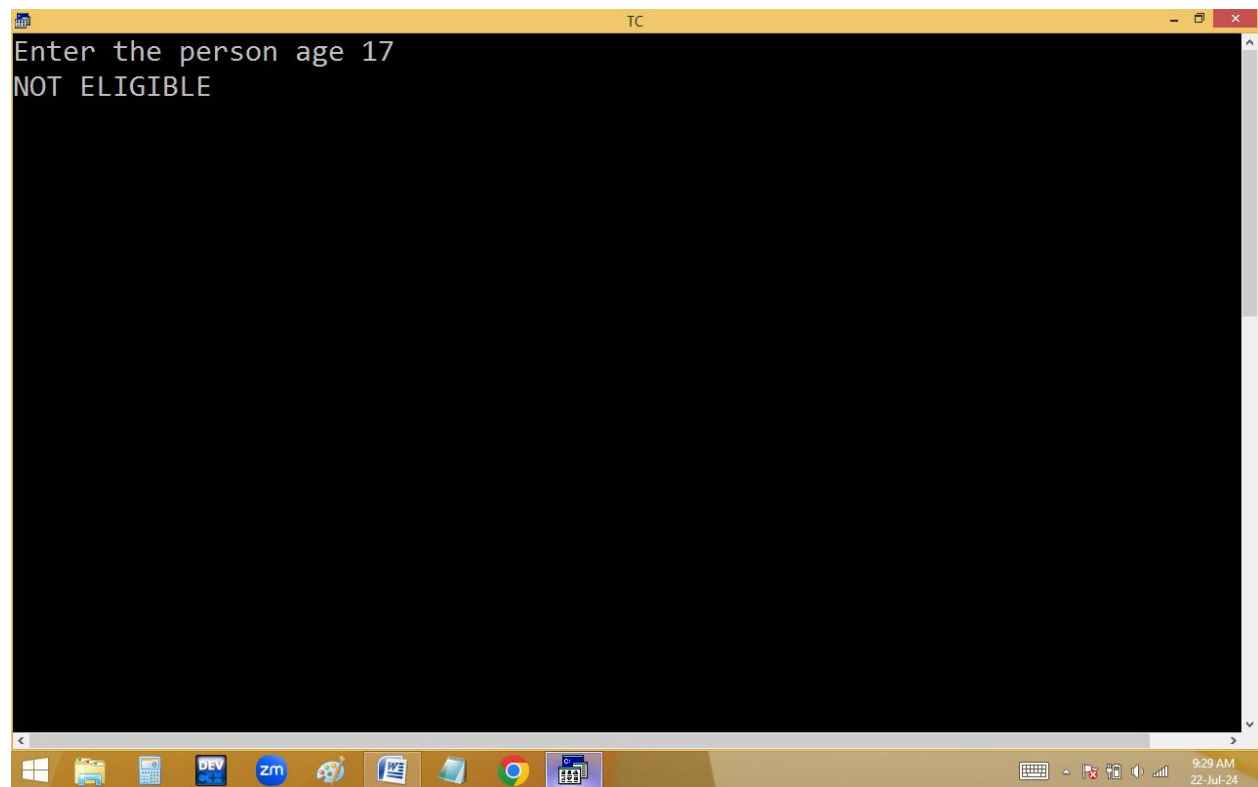
The Windows taskbar at the bottom shows various icons including Windows, File Explorer, DEV, zm, and others, along with a system clock showing 9:29 AM on 22-Jul-24.



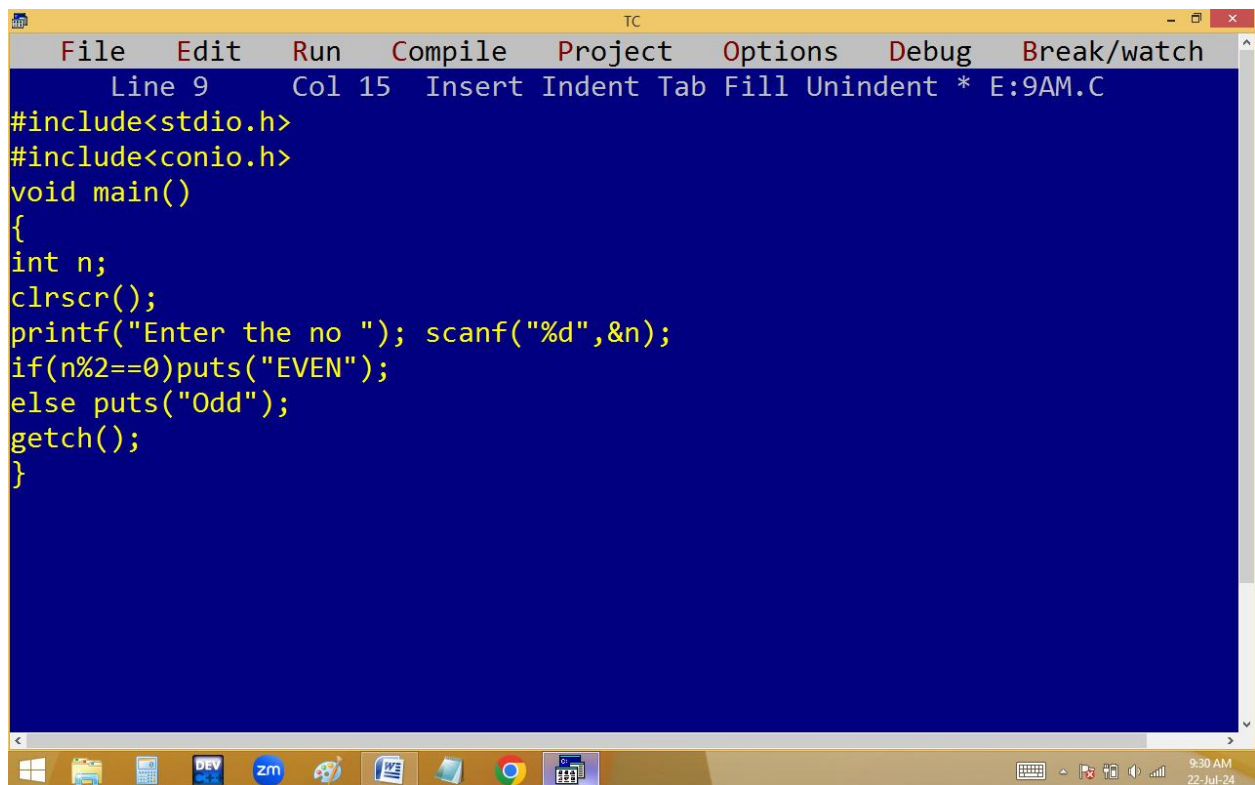
The screenshot shows the Turbo C++ (TC) IDE with a yellow title bar. The main editing area has a black background and displays the output of the program:

```
Enter the person age 18
ELIGIBLE FOR VOTE
```

The Windows taskbar at the bottom is identical to the first screenshot, showing the same icons and system clock.



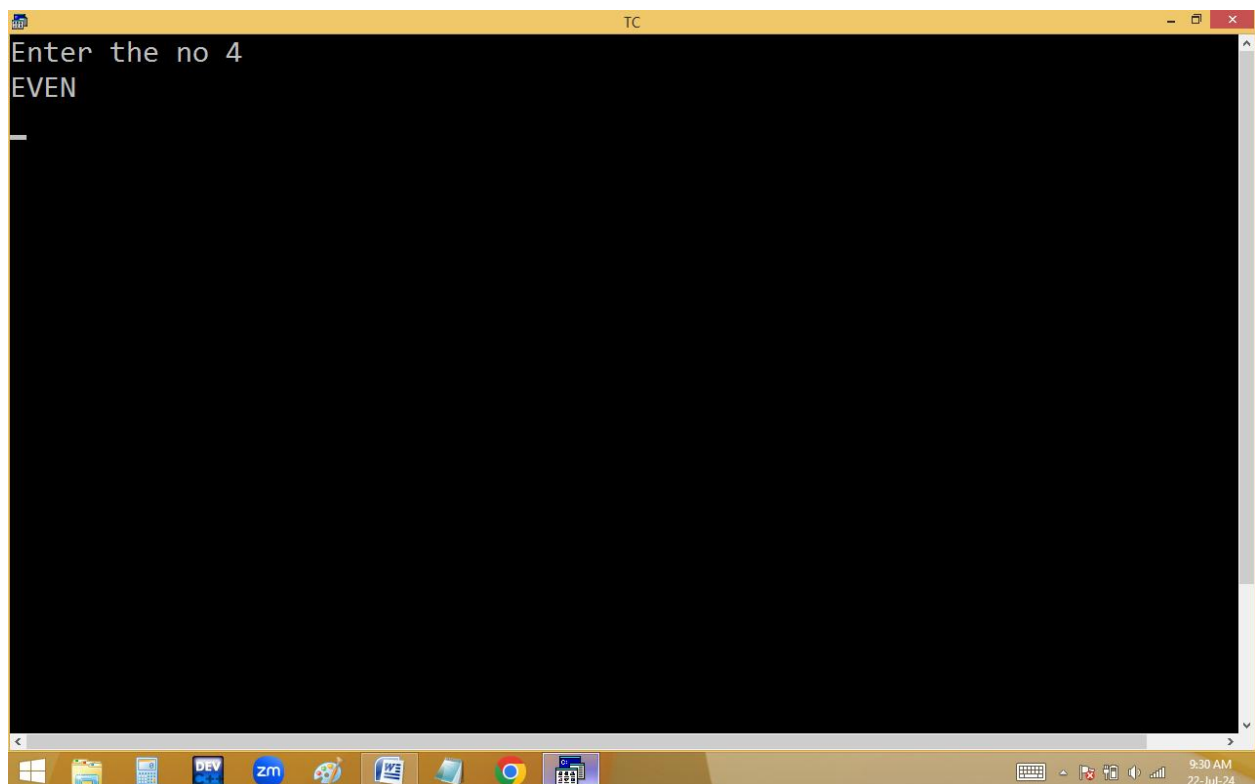
FINDING EVEN/ODD:



The screenshot shows the Turbo C++ (TC) IDE with a blue background. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 9 Col 15 Insert Indent Tab Fill Unindent * E:9AM.C'. The code is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int n;
    clrscr();
    printf("Enter the no "); scanf("%d",&n);
    if(n%2==0)puts("EVEN");
    else puts("Odd");
    getch();
}
```

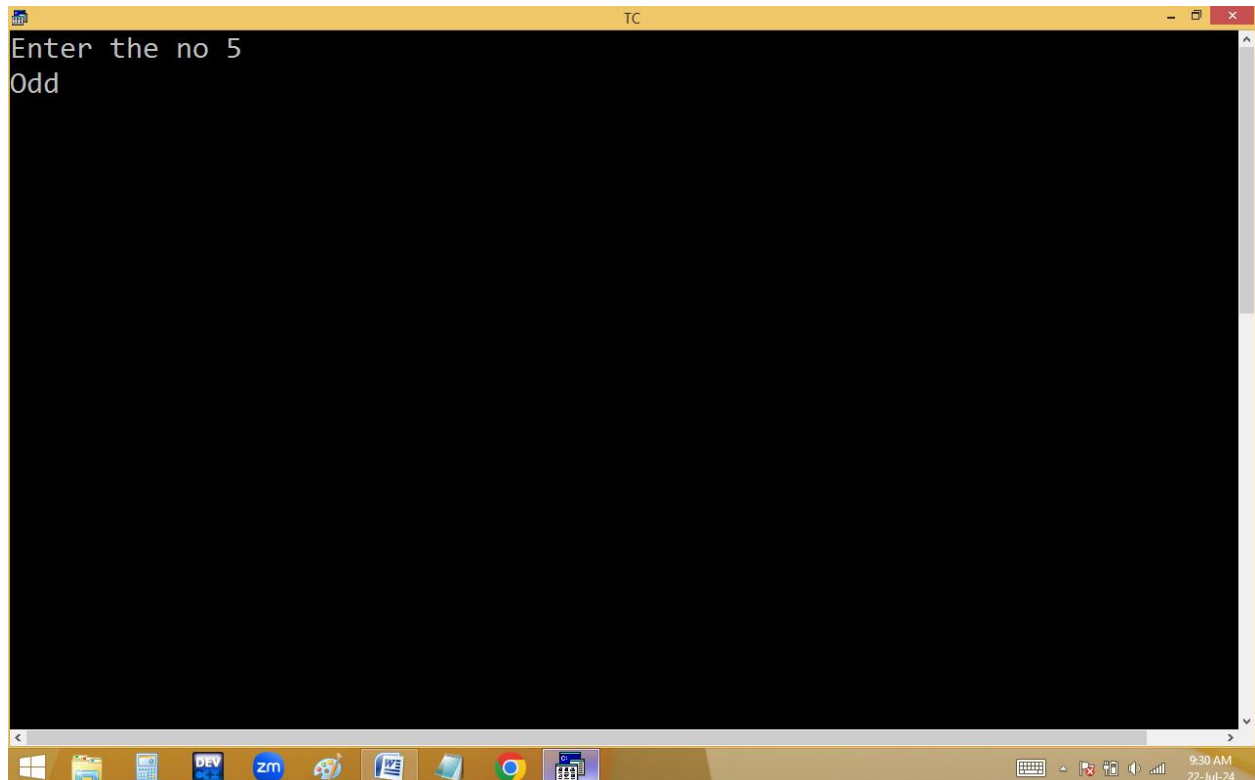
The Windows taskbar at the bottom shows various icons including the Start button, File Explorer, Calculator, DEV C++, Zm, Paint, Word, and Chrome. The system clock in the bottom right corner displays '9:30 AM' and '22-Jul-24'.



The screenshot shows the Turbo C++ (TC) IDE with a black background, displaying the output of the program. The text 'Enter the no 4' and 'EVEN' is visible on the first two lines. A horizontal cursor line is positioned below the output.

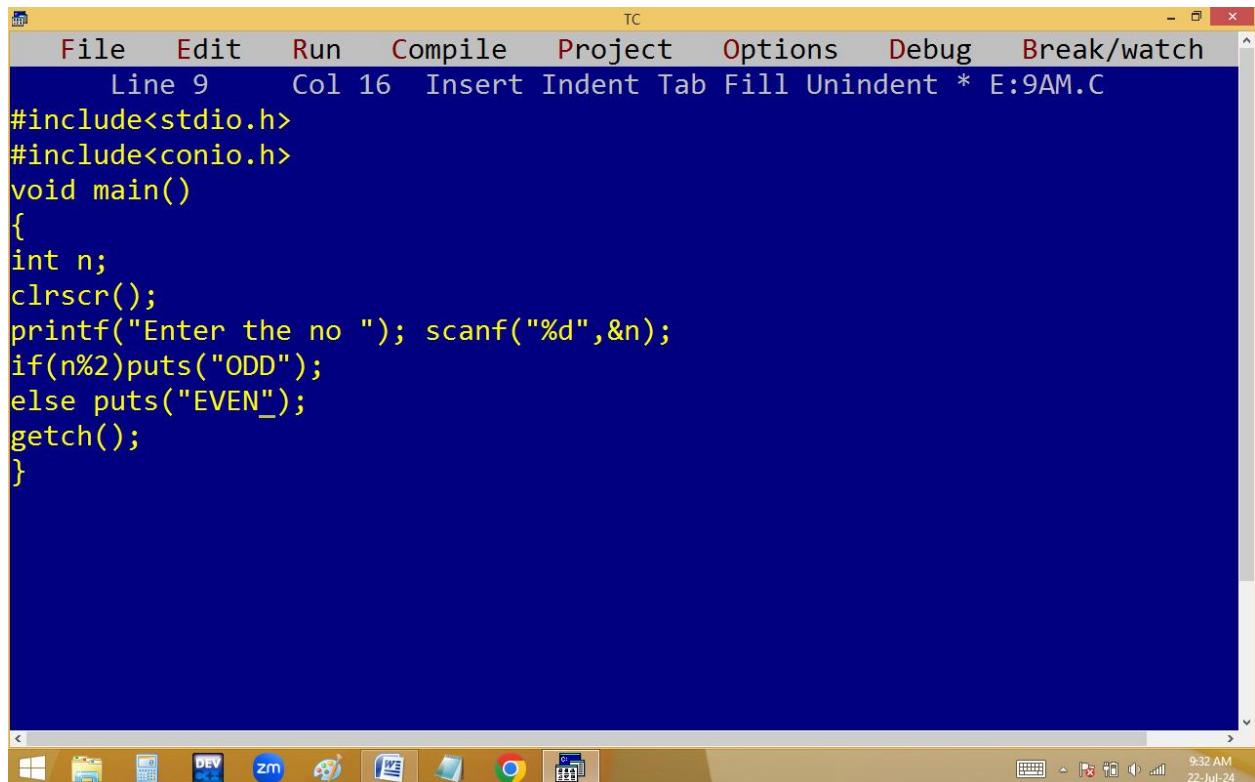
```
Enter the no 4
EVEN
```

The Windows taskbar at the bottom is identical to the one in the first screenshot, showing the same set of application icons and system clock information.



A screenshot of a Turbo C++ (TC) console window. The window has a yellow title bar with the text "TC" and standard minimize, maximize, and close buttons. The main area is black with white text. The text displayed is "Enter the no 5" on the first line and "Odd" on the second line. The Windows taskbar is visible at the bottom, showing various application icons and the system clock indicating 9:30 AM on 22-Jul-24.

```
TC
Enter the no 5
Odd
```

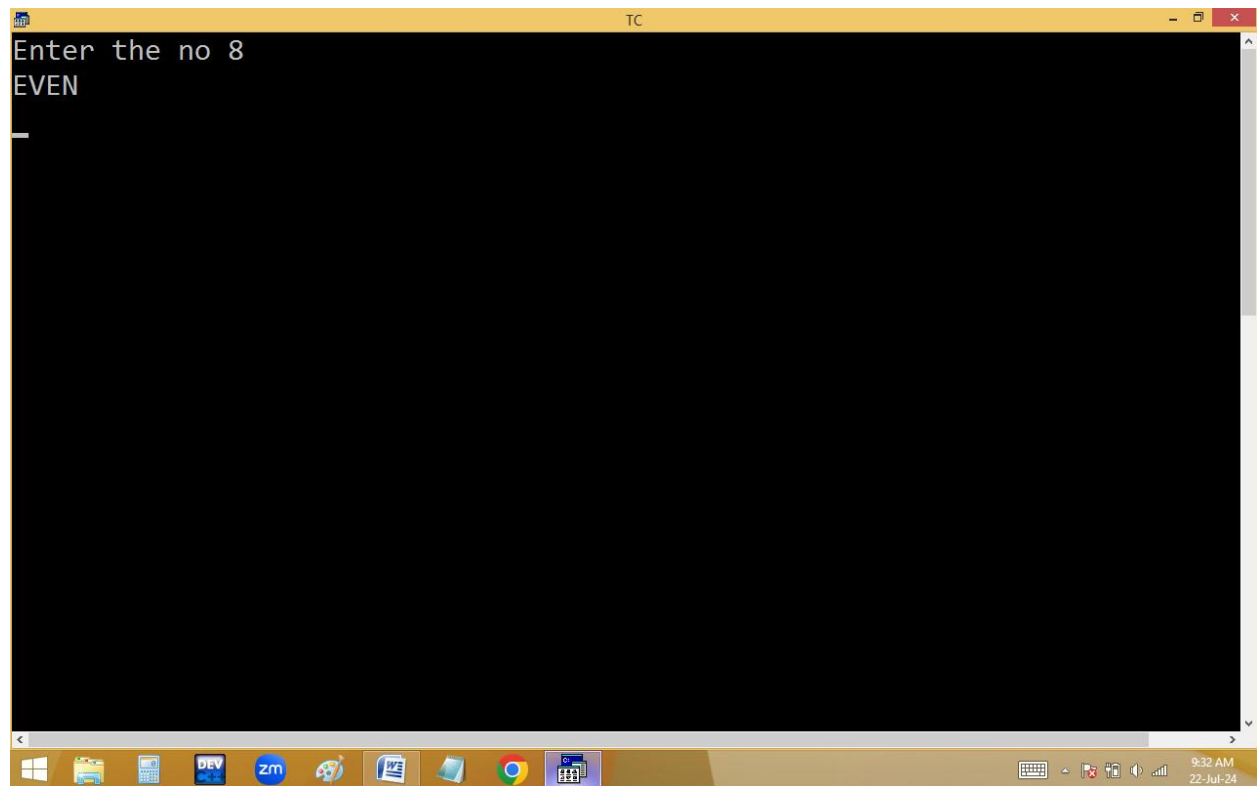


A screenshot of a Turbo C++ (TC) editor window. The window has a yellow title bar with the text "TC" and standard minimize, maximize, and close buttons. Below the title bar is a menu bar with options: File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. Below the menu bar is a status bar showing "Line 9 Col 16 Insert Indent Tab Fill Unindent * E:9AM.C". The main area is blue with yellow text. The code displayed is a C program that checks if a number is odd or even. The code is as follows:

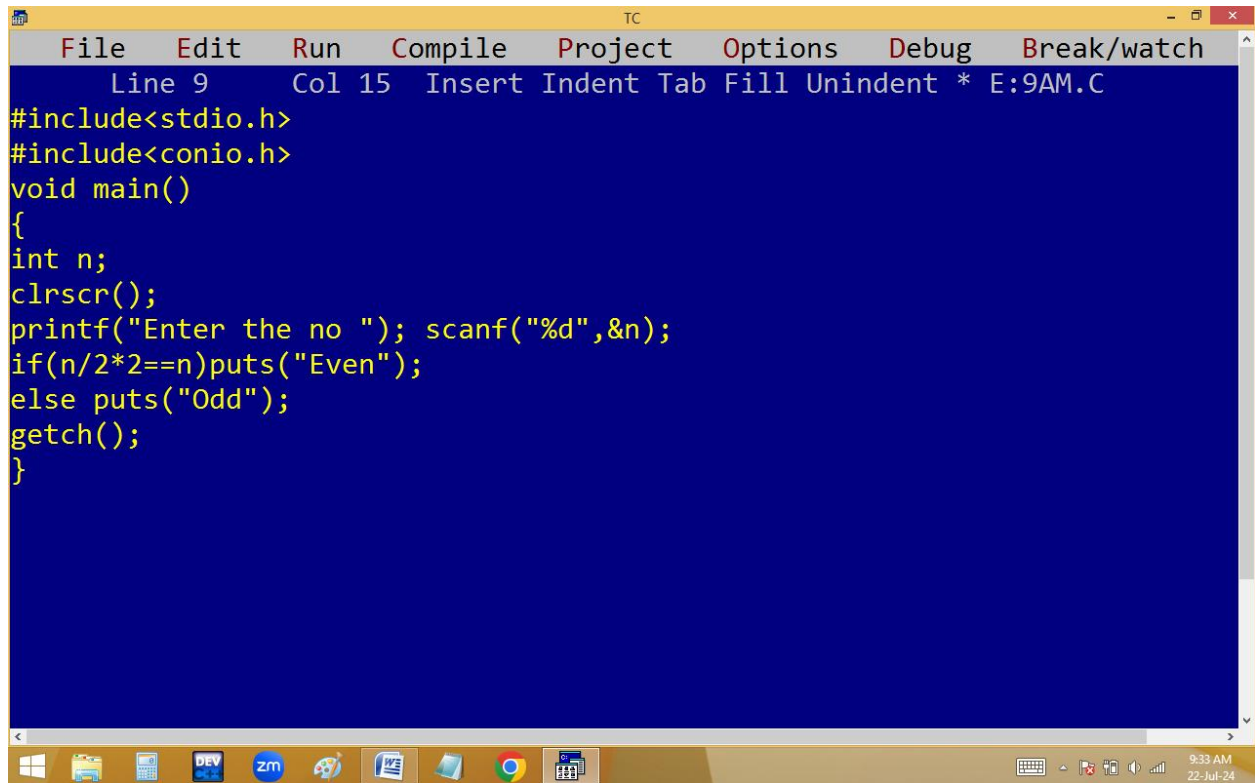
```
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter the no "); scanf("%d",&n);
if(n%2)puts("ODD");
else puts("EVEN_");
getch();
}
```

 The Windows taskbar is visible at the bottom, showing various application icons and the system clock indicating 9:32 AM on 22-Jul-24.

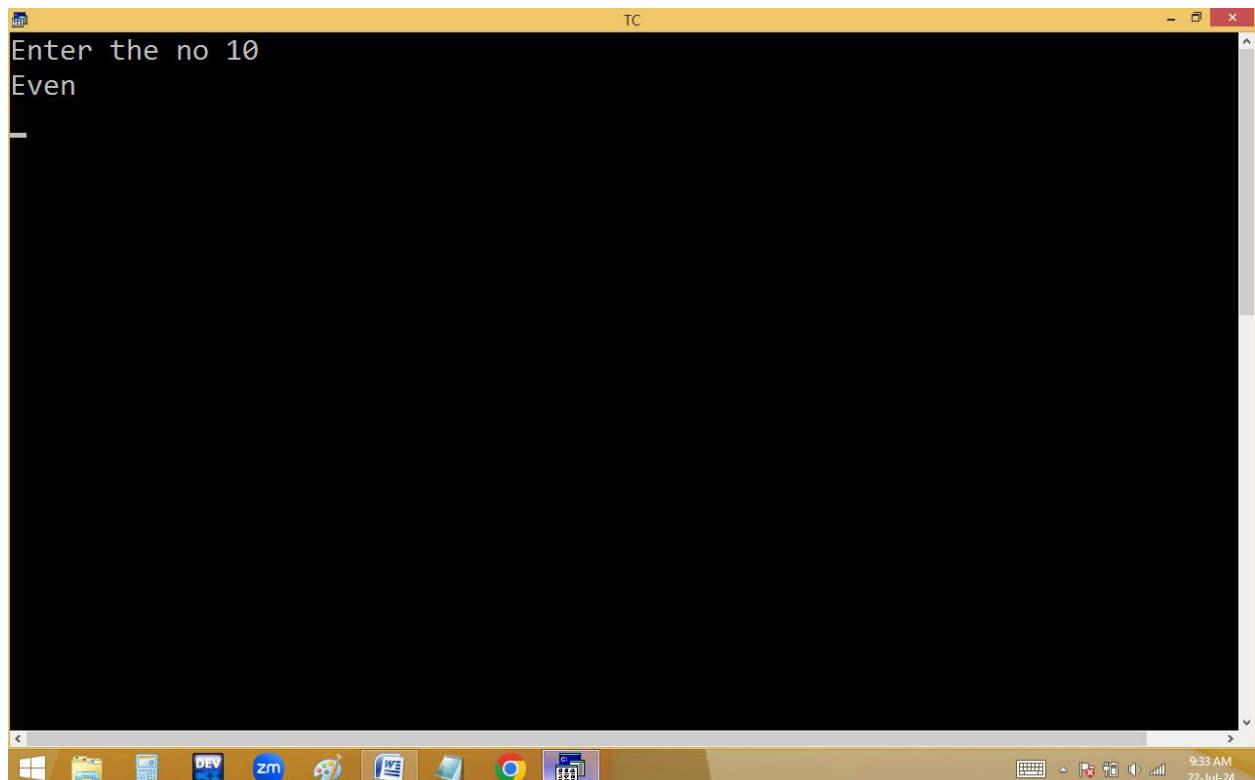
```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 16 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter the no "); scanf("%d",&n);
if(n%2)puts("ODD");
else puts("EVEN_");
getch();
}
```



WITHOUT USING %:



```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 15 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter the no "); scanf("%d",&n);
if(n/2*2==n)puts("Even");
else puts("Odd");
getch();
}
```



```
TC
Enter the no 10
Even
```

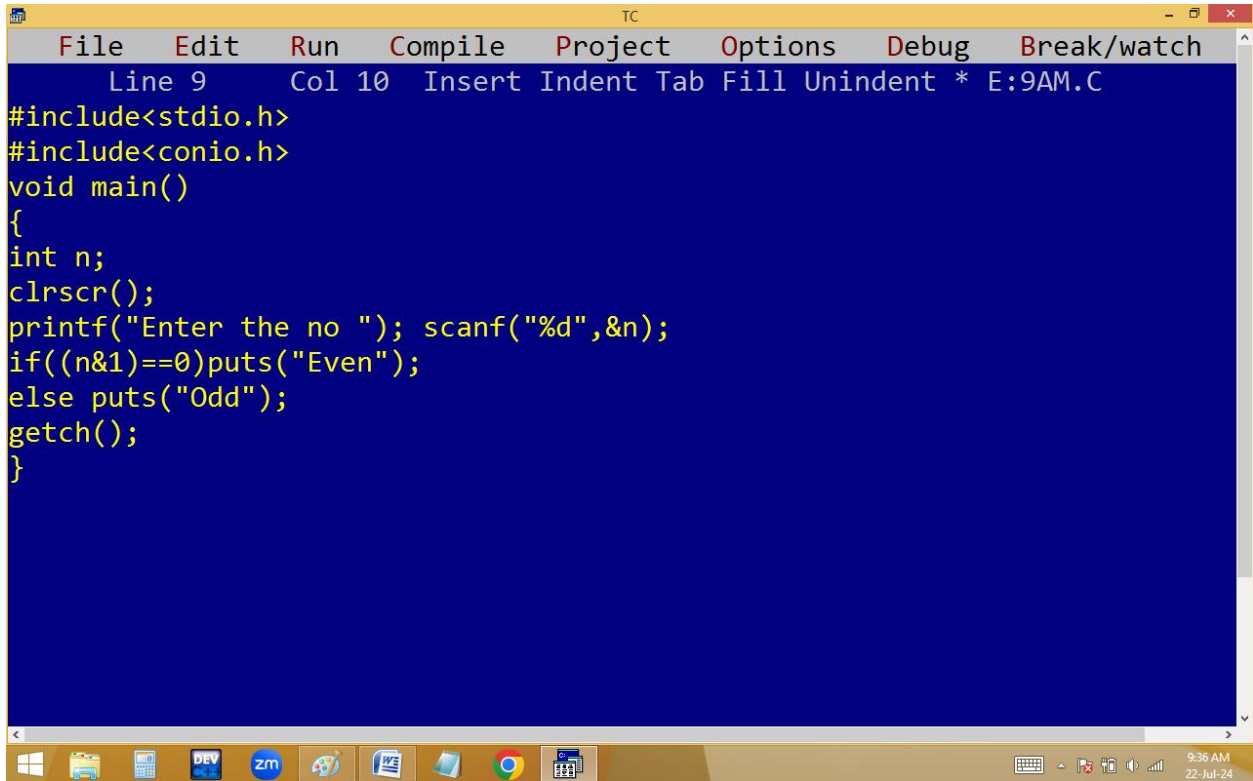
```
TC
Enter the no 11
Odd
```

$$4/2=2*2=4$$

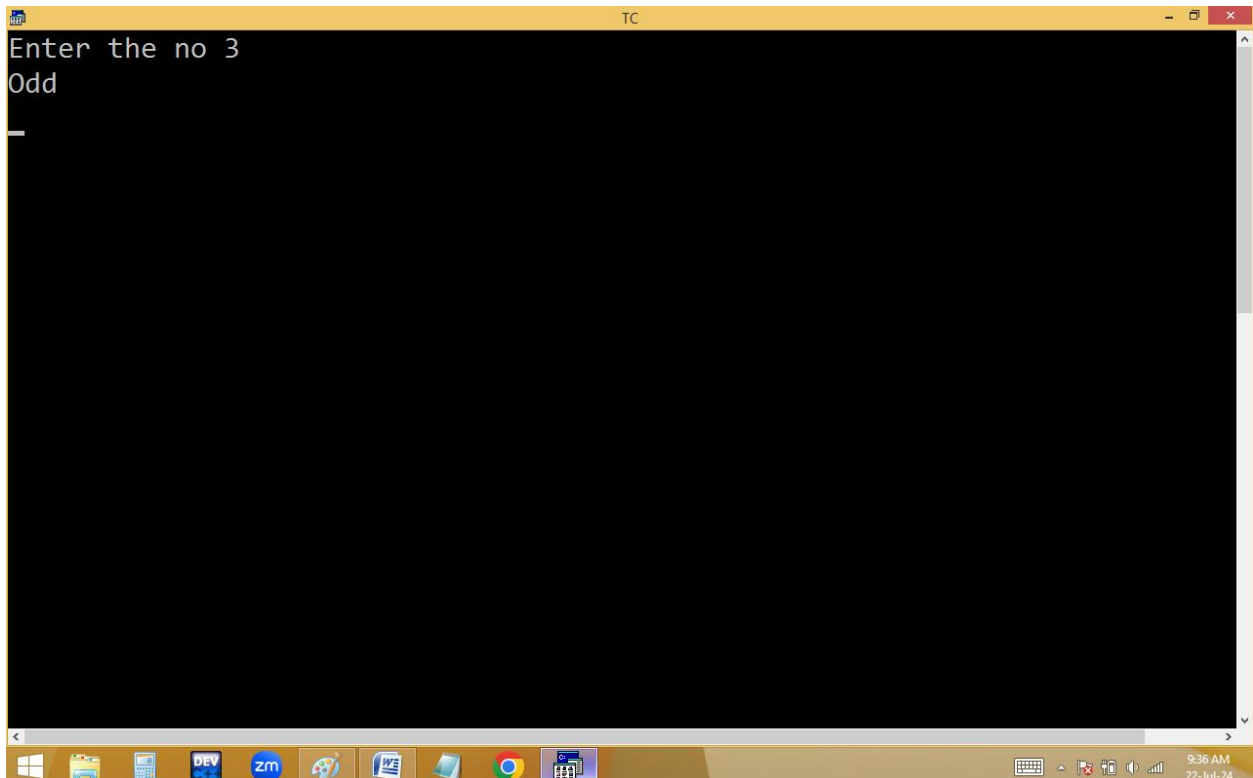
if($n/2 * 2 == n$) p("even"); else p("odd");

$$5/2=2*2=4$$

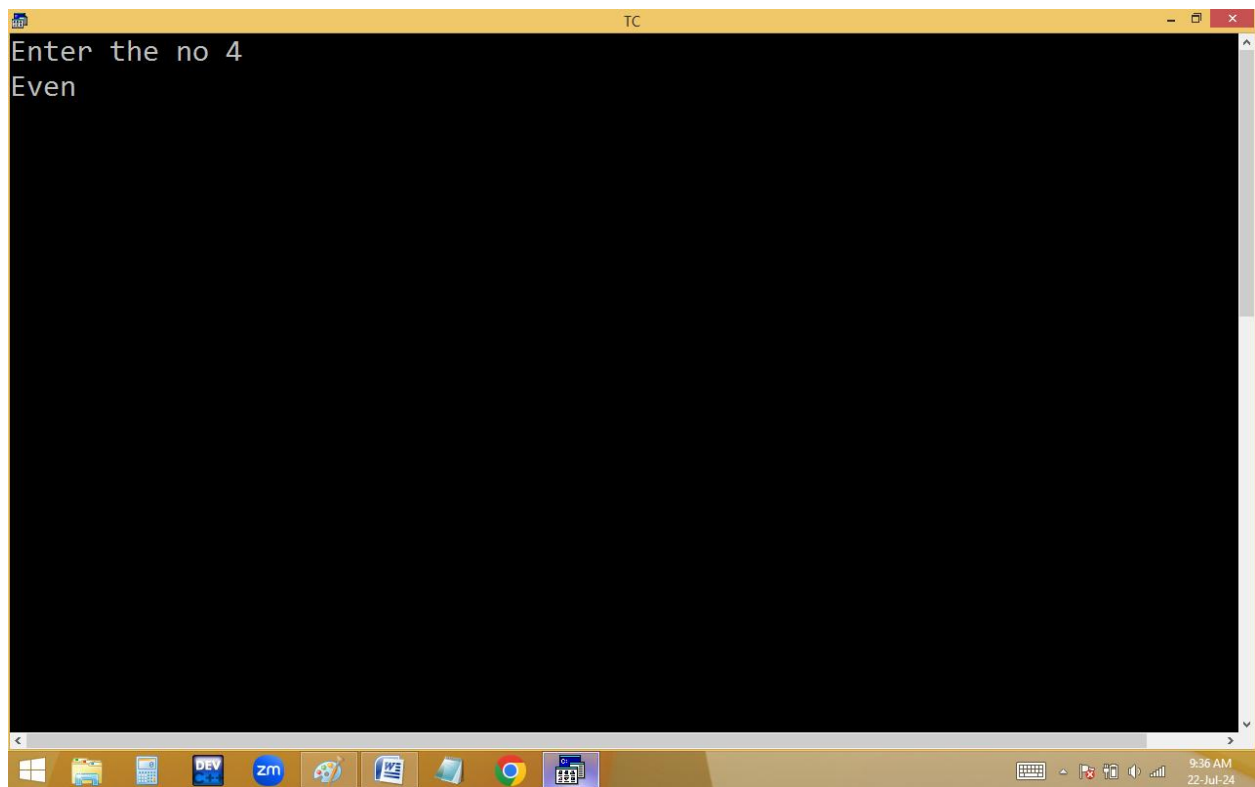
Without using arithmetic operators:



```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 10 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter the no "); scanf("%d",&n);
if((n&1)==0)puts("Even");
else puts("Odd");
getch();
}
```



```
TC
Enter the no 3
Odd
```



3=11

1=01

01=1 ==0 ==>false

if((n&1)==0) p(even);else p(odd);

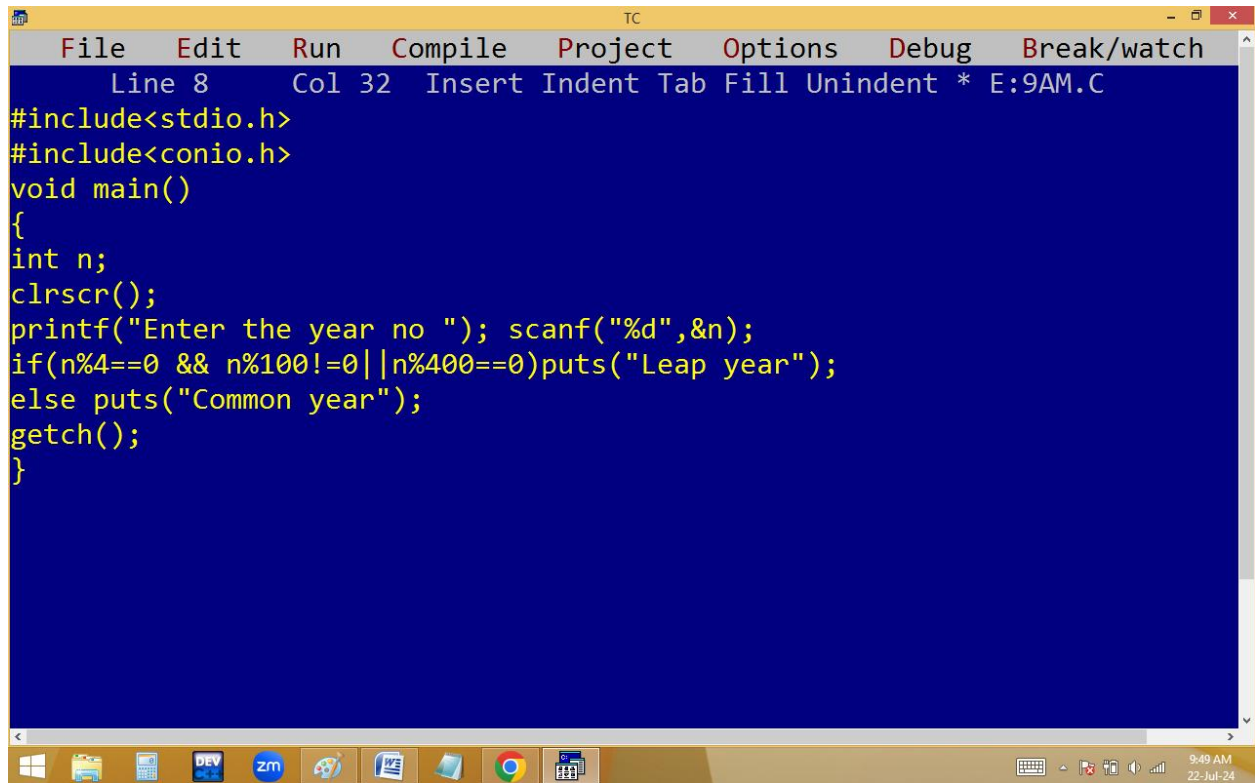
4=100

1=001

000=0==0==>true

$$\begin{array}{r} 2 \overline{) 3} \\ \underline{1-} \\ 1 \end{array} \quad \begin{array}{r} 2 \overline{) 1} \\ \underline{0-} \\ 1 \end{array} \quad \begin{array}{r} 2 \overline{) 4} \\ \underline{2-0} \\ 1-0 \end{array}$$

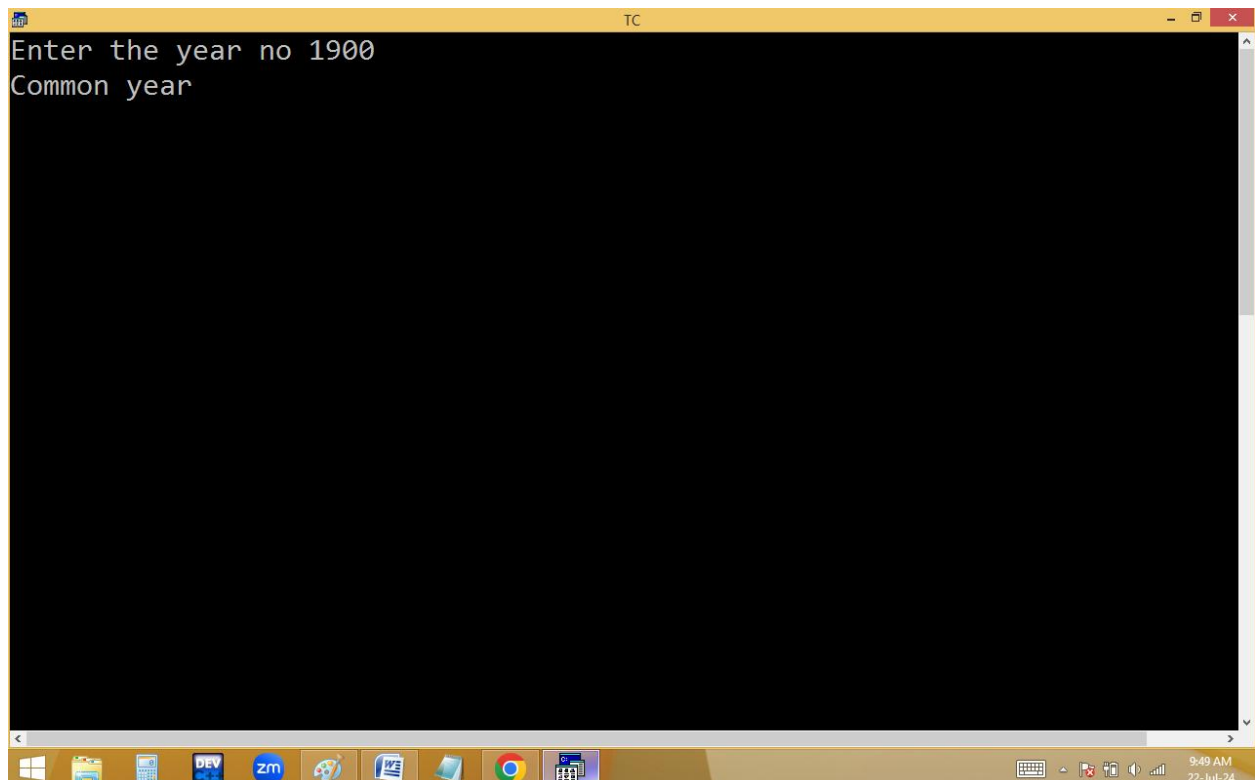
Finding leap year / common year:



The screenshot shows the Turbo C++ (TC) IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 8, Col 32, 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 n;
    clrscr();
    printf("Enter the year no "); scanf("%d",&n);
    if(n%4==0 && n%100!=0 || n%400==0)puts("Leap year");
    else puts("Common year");
    getch();
}
```

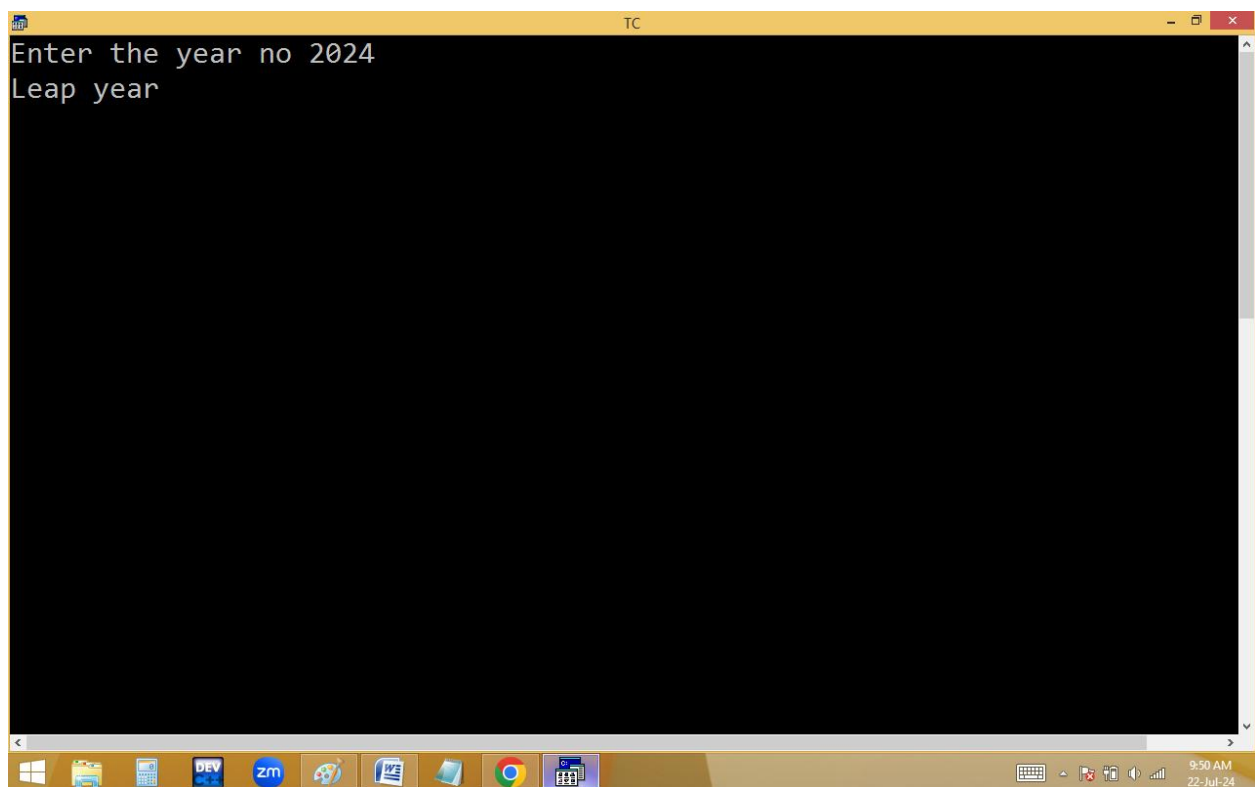
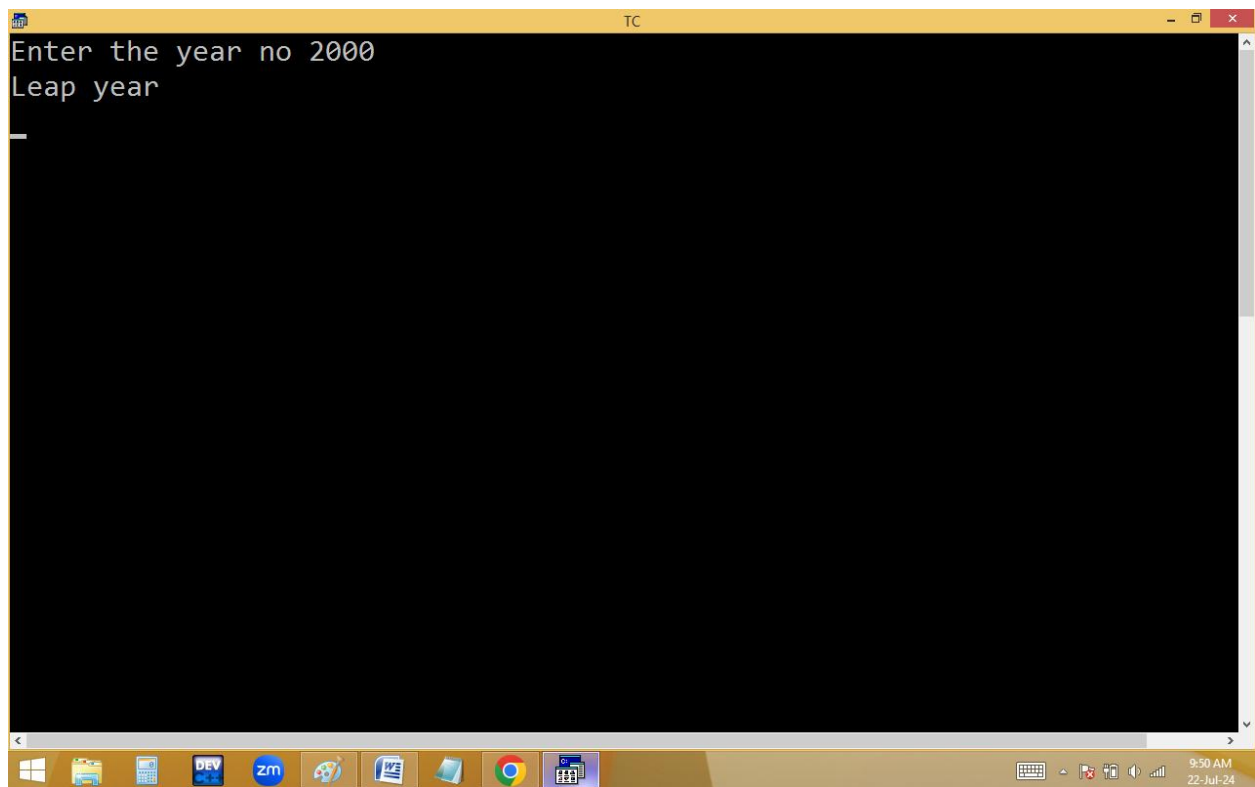
The Windows taskbar at the bottom shows the Start button, several application icons (including DEV, zm, and Google Chrome), and the system clock indicating 9:49 AM on 22-Jul-24.

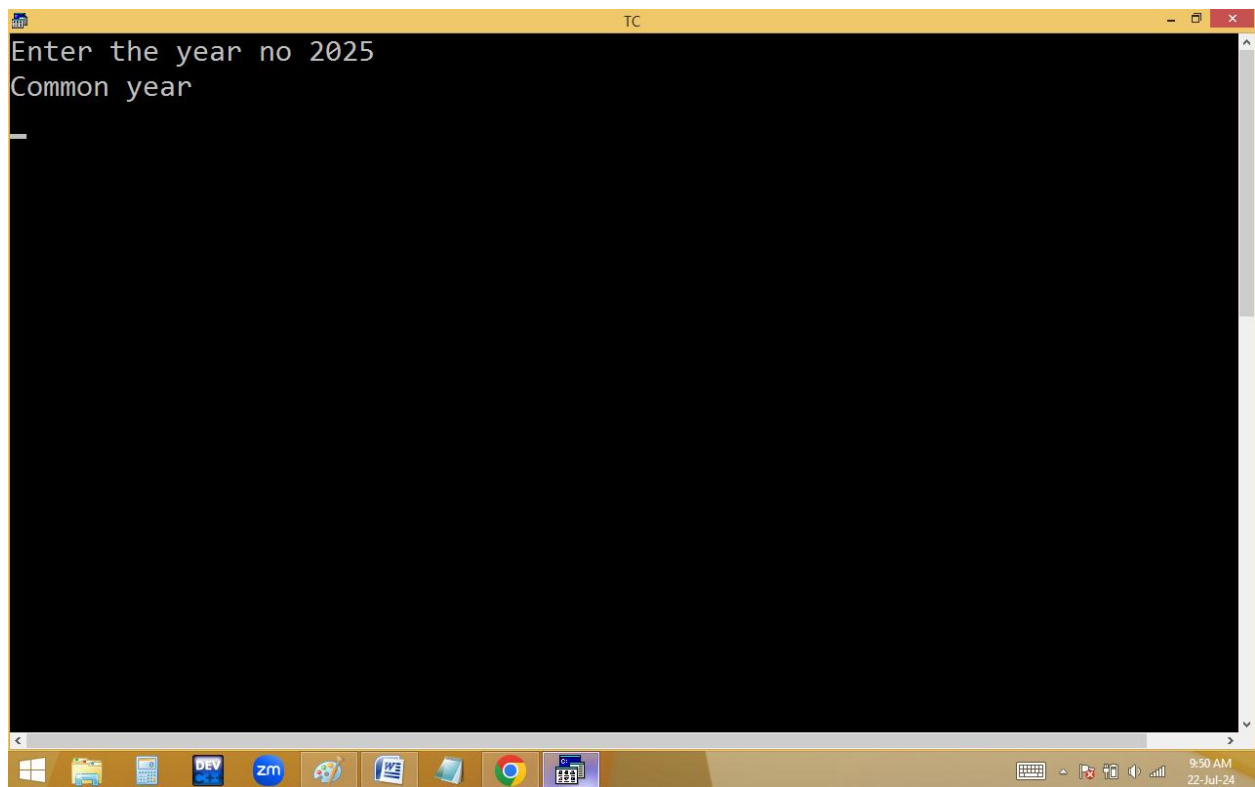


The screenshot shows the Turbo C++ (TC) IDE with the same menu bar and status bar. The output window displays the program's execution results:

```
Enter the year no 1900
Common year
```

The Windows taskbar at the bottom is identical to the first screenshot, showing the same application icons and system clock (9:49 AM on 22-Jul-24).





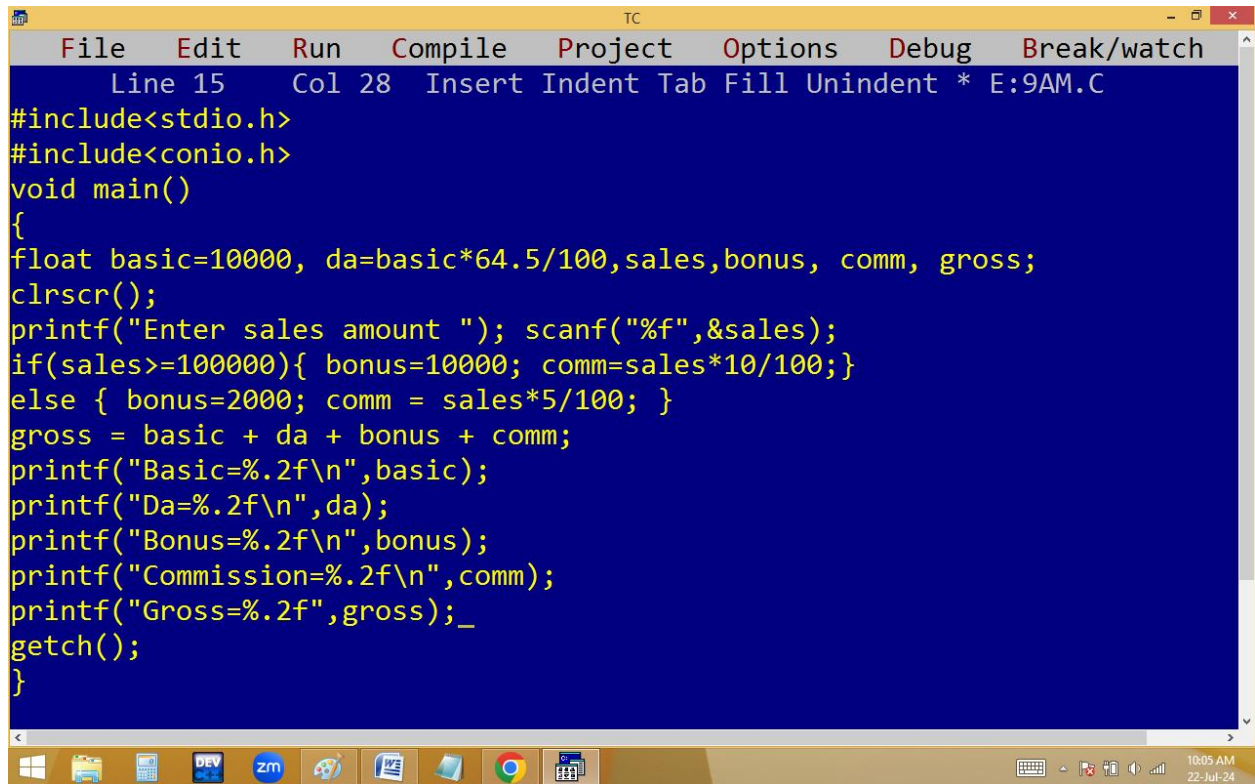
$$\begin{array}{r} 4 \overline{) 1900} (475 \\ \underline{1900} \\ 0 \end{array}$$

$$\begin{array}{r} 100 \overline{) 1900} (19 \\ \underline{1900} \\ 0 \neq 0 \times \end{array}$$

$$\begin{array}{r} 400 \overline{) 2000} (5 \\ \underline{2000} \\ 0 = 0 \checkmark \end{array}$$

Read a salesman sales amount and find the gross salary using below table.

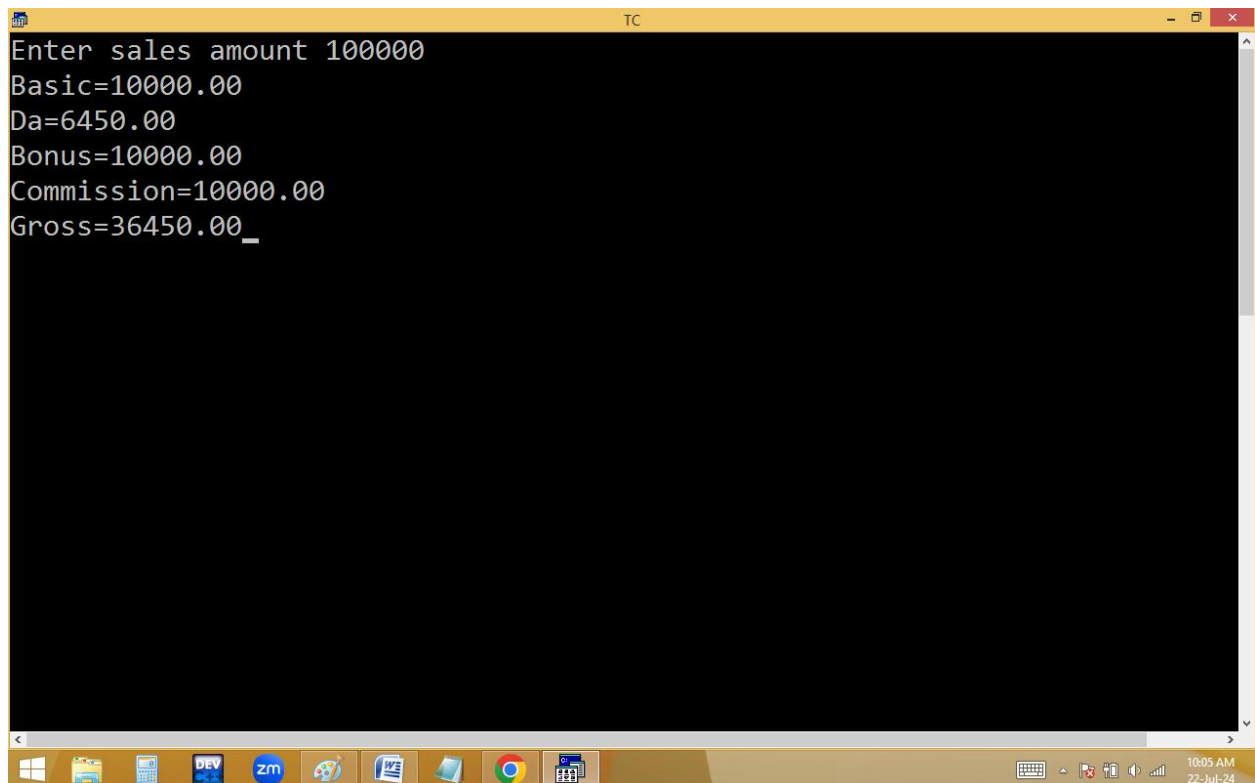
Sales amount \geq 100000	Sales amount $<$ 100000
Basic = 10000	Basic = 10000
Da = 64.5% of basic	Da = 64.5% of basic
Bonus = 10000	Bonus = 2000
Commission = 10% of sales	Commission = 5% of sales
GROSS = basic + da + bonus + commission	



The screenshot shows the Turbo C++ (TC) IDE with a blue background. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 15 Col 28 Insert Indent Tab Fill Unindent * E:9AM.C'. The code is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
float basic=10000, da=basic*64.5/100,sales,bonus, comm, gross;
clrscr();
printf("Enter sales amount "); scanf("%f",&sales);
if(sales>=100000){ bonus=10000; comm=sales*10/100;}
else { bonus=2000; comm = sales*5/100; }
gross = basic + da + bonus + comm;
printf("Basic=%.2f\n",basic);
printf("Da=%.2f\n",da);
printf("Bonus=%.2f\n",bonus);
printf("Commission=%.2f\n",comm);
printf("Gross=%.2f",gross);_
getch();
}
```

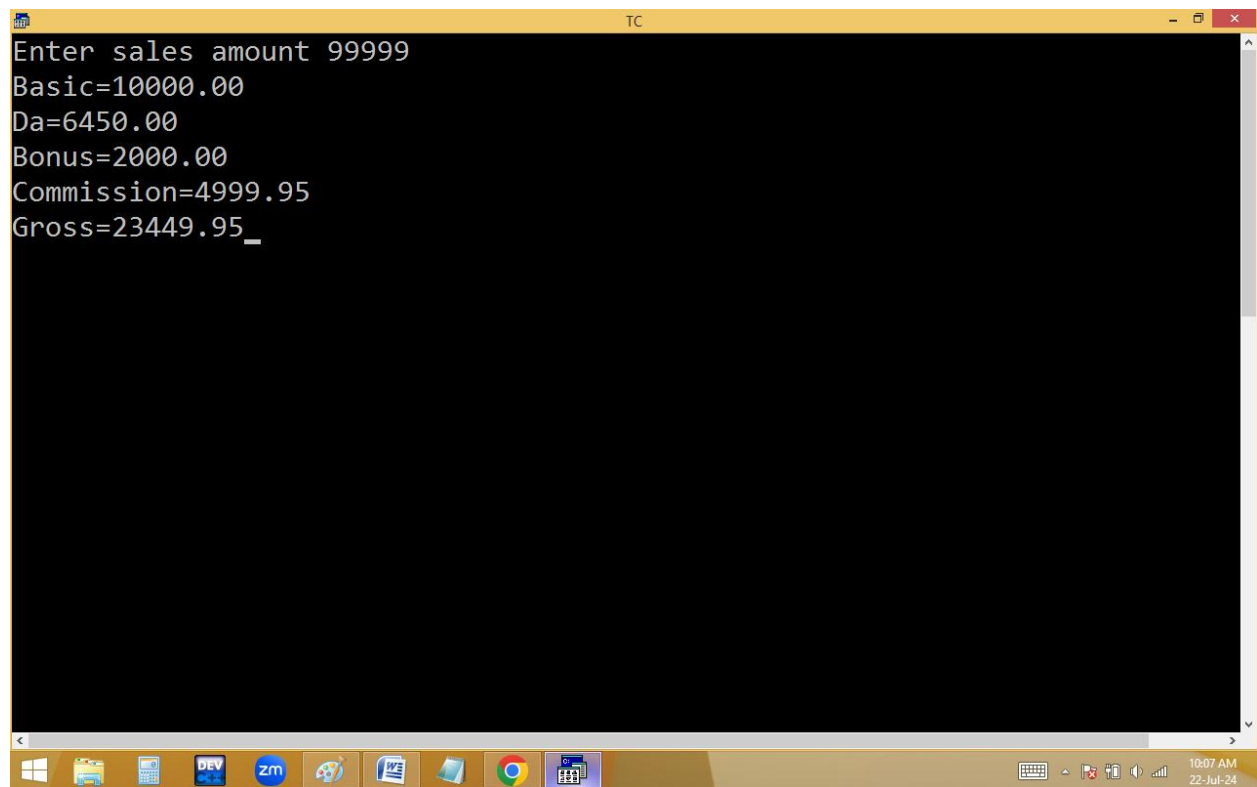
The Windows taskbar at the bottom shows icons for Windows, File Explorer, DEV C++, ZOOM, and other applications. The system clock in the bottom right corner displays '10:05 AM 22-Jul-24'.



The screenshot shows the Turbo C++ (TC) IDE with a black background, displaying the output of the program. The output is as follows:

```
Enter sales amount 100000
Basic=10000.00
Da=6450.00
Bonus=10000.00
Commission=10000.00
Gross=36450.00_
```

The Windows taskbar at the bottom is identical to the first screenshot, showing the same set of application icons and system clock.



```
Enter sales amount 99999
Basic=10000.00
Da=6450.00
Bonus=2000.00
Commission=4999.95
Gross=23449.95_
```

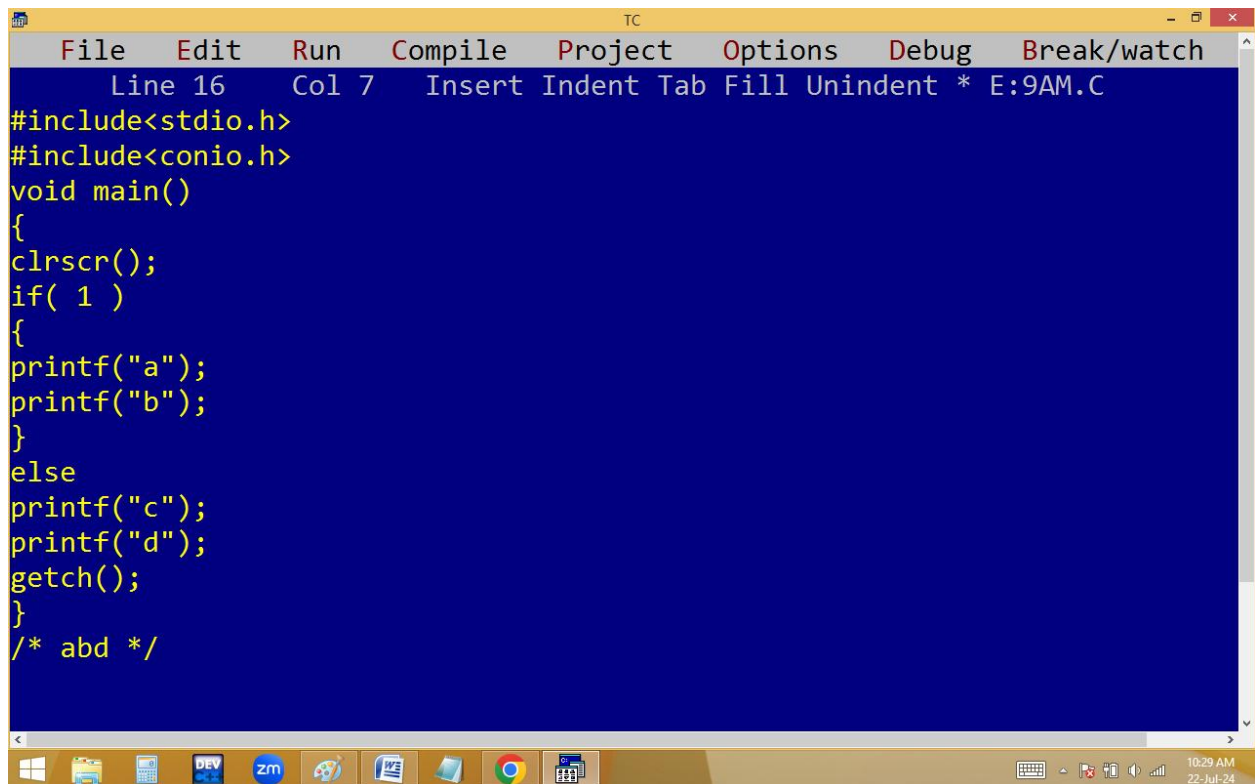
Read a stu id, name, marks in 6 subjects. Find the tot, avg and pass / fail.

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int id, tel, eng, hin, mat, sci, soc,tot;
char name[30];
float avg;
clrscr();
printf("Enter stu id "); scanf("%d",&id);
flushall(); /* fflush(stdin); */
printf("Enter stu name "); gets(name);
printf("Enter 6 sub marks ");
scanf("%d%d%d%d%d%d",&tel,&eng,&hin,&mat,&sci,&soc);
tot=tel+eng+hin+mat+sci+soc;
avg=tot/6.0;
printf("Id=%d, Name=%s, Tot=%d, Avg=%.2f, Result= ",id,name,tot,avg);
if(tel>=35&&eng>=35&&hin>=35&&mat>=35&&sci>=35&&soc>=35)puts("Passed");
else puts("Failed");
getch();
}
```

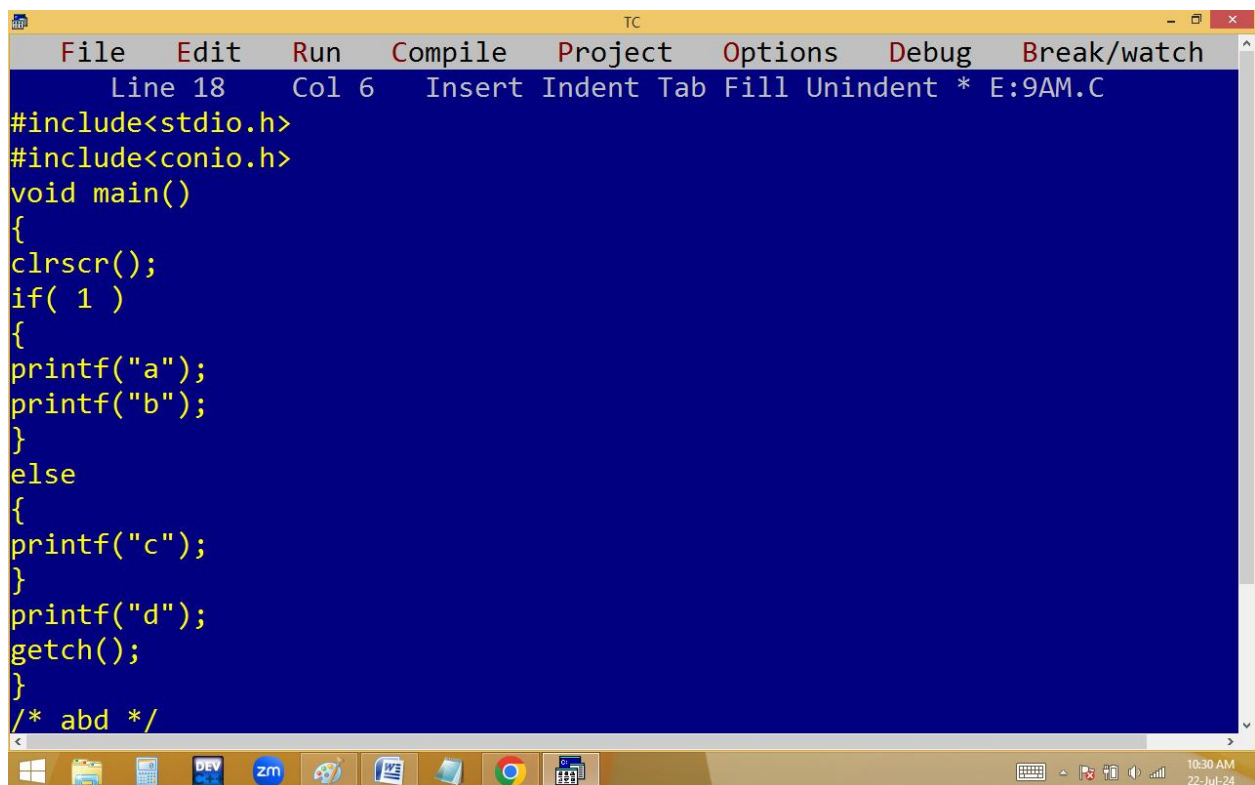
```
TC
Enter stu id 1
Enter stu name Krish
Enter 6 sub marks 99 90 89 98 98 70
Id=1, Name=Krish, Tot=544, Avg=90.67, Result= Passed
```

```
TC
Enter stu id 2
Enter stu name john
Enter 6 sub marks 43 38 40 33 44 37
Id=2, Name=john, Tot=235, Avg=39.17, Result= Failed
```

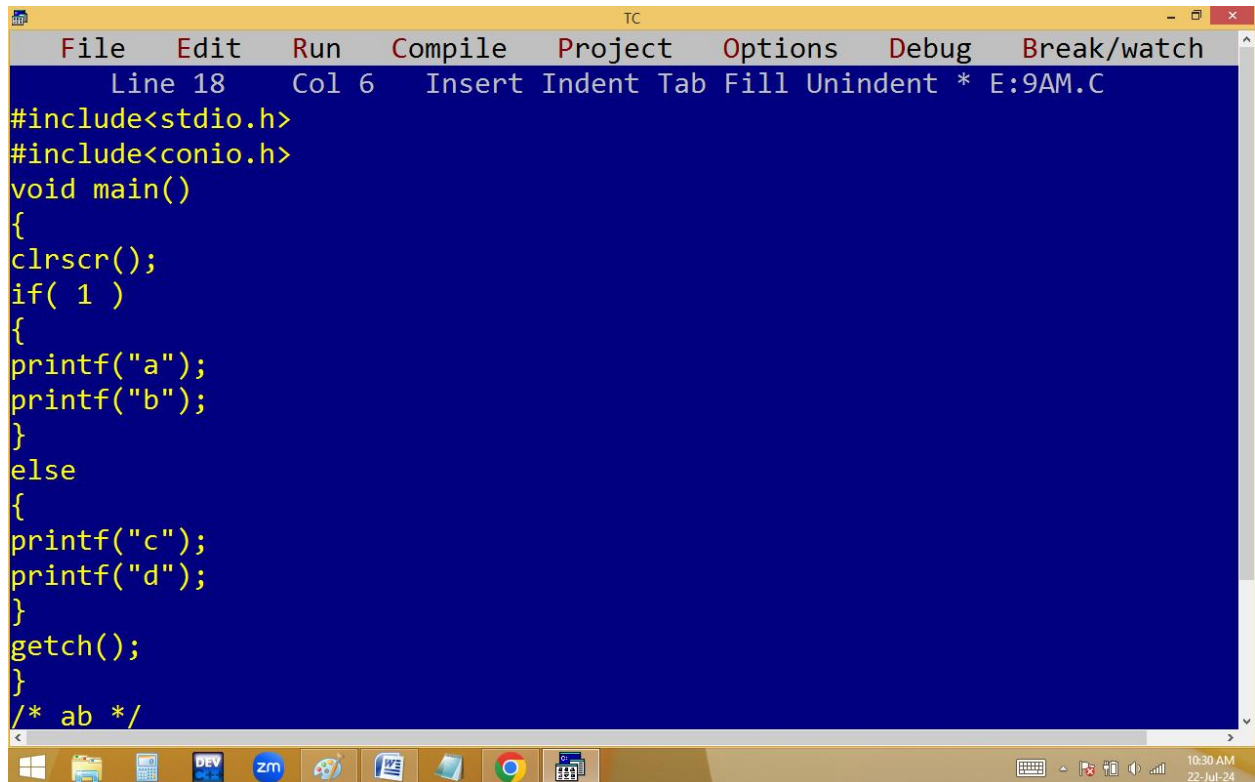
```
TC
File Edit Run Compile Project Options Debug Break/watch
Error: Misplaced else in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 1 )
printf("a");
printf("b");
else
printf("c");
printf("d");
getch();
}
/* Error */
```



```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 16 Col 7 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 1 )
{
printf("a");
printf("b");
}
else
printf("c");
printf("d");
getch();
}
/* abd */
```



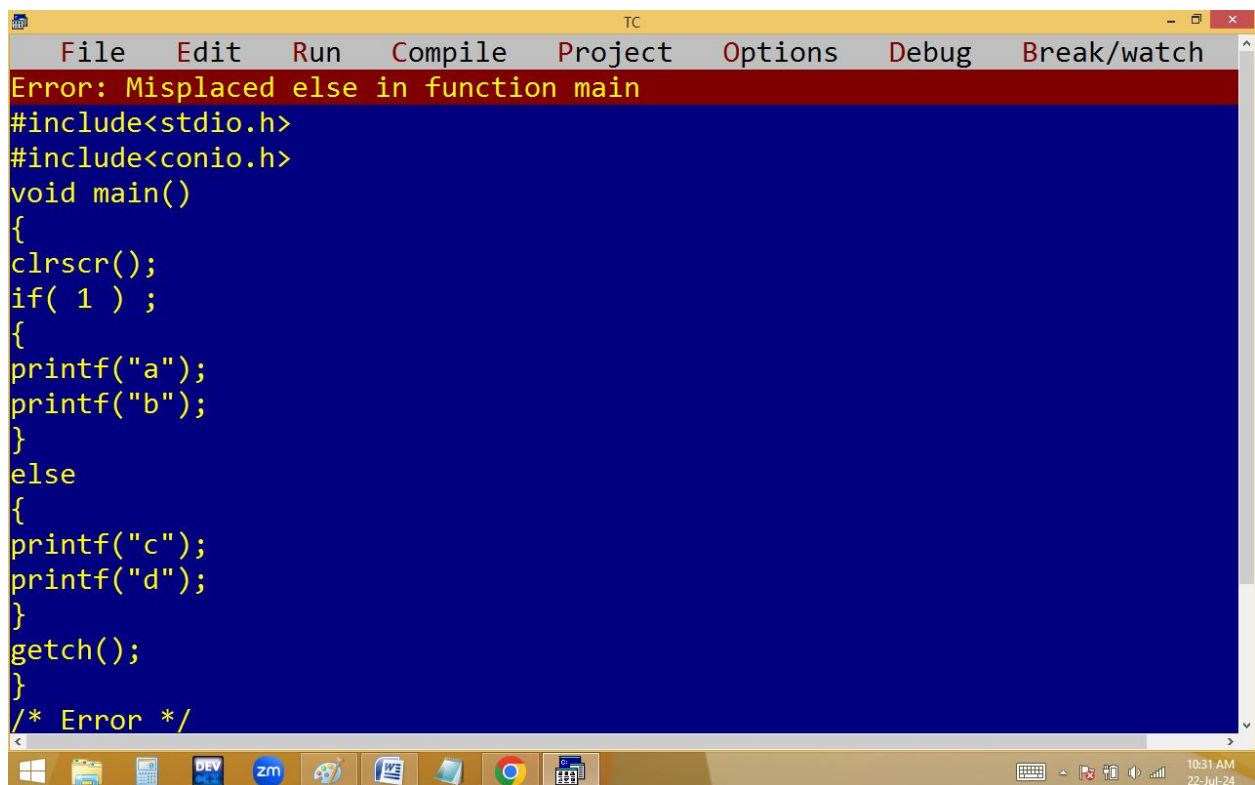
```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 18 Col 6 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 1 )
{
printf("a");
printf("b");
}
else
{
printf("c");
}
printf("d");
getch();
}
/* abd */
```

The screenshot shows the Turbo C++ (TC) IDE interface. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 18 Col 6 Insert Indent Tab Fill Unindent * E:9AM.C'. The code editor contains the following C program:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 1 )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* ab */
```

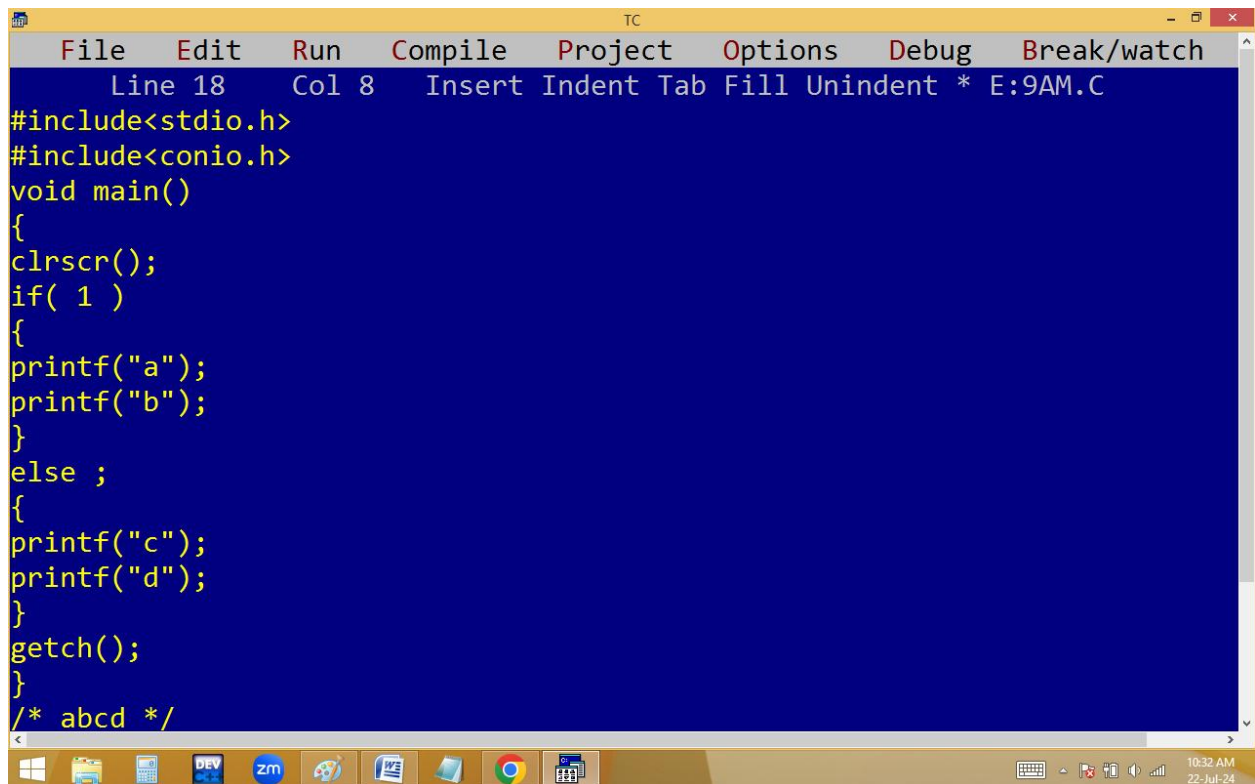
The Windows taskbar at the bottom shows various icons including Windows, File Explorer, DEV, zm, and others. The system clock in the bottom right corner displays '10:30 AM 22-Jul-24'.



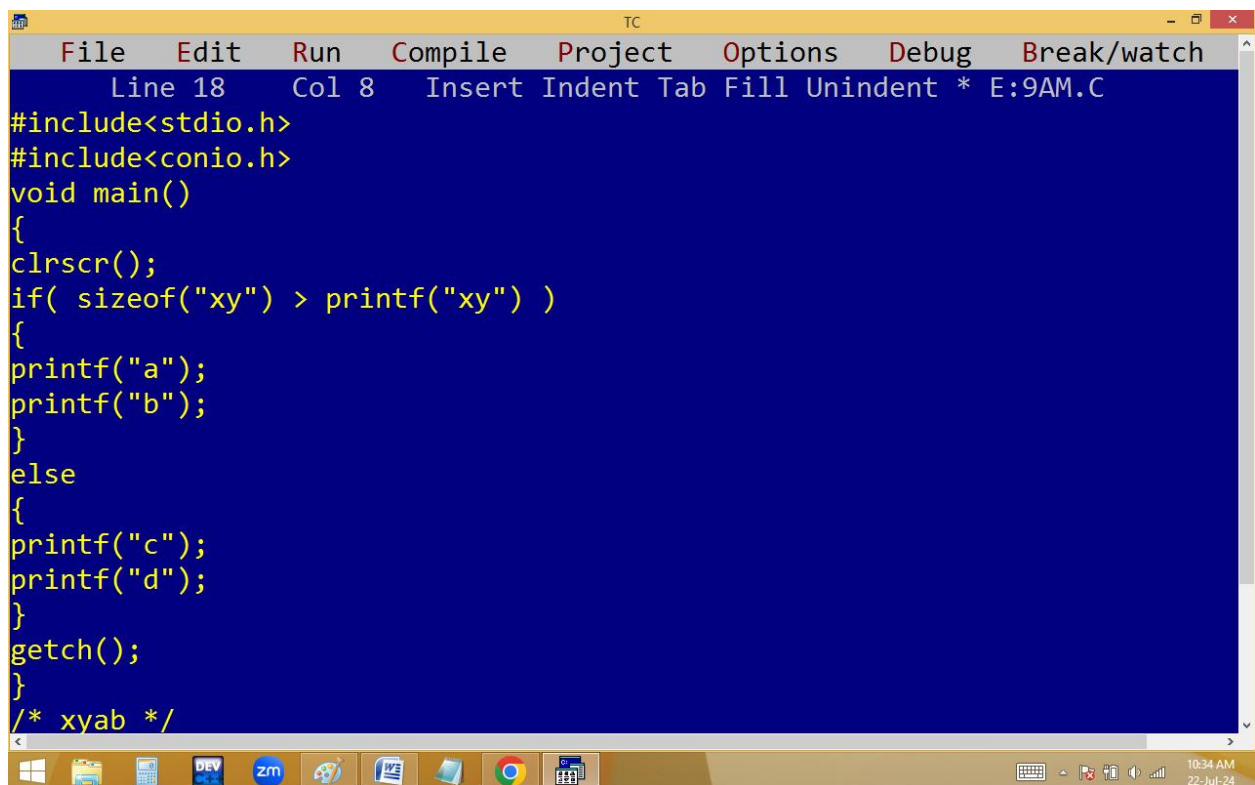
The screenshot shows the Turbo C++ (TC) IDE interface after a compilation attempt. A red error message banner at the top reads 'Error: Misplaced else in function main'. The code editor contains the same C program as the first screenshot, but with a modification to the comment at the bottom:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 1 ) ;
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* Error */
```

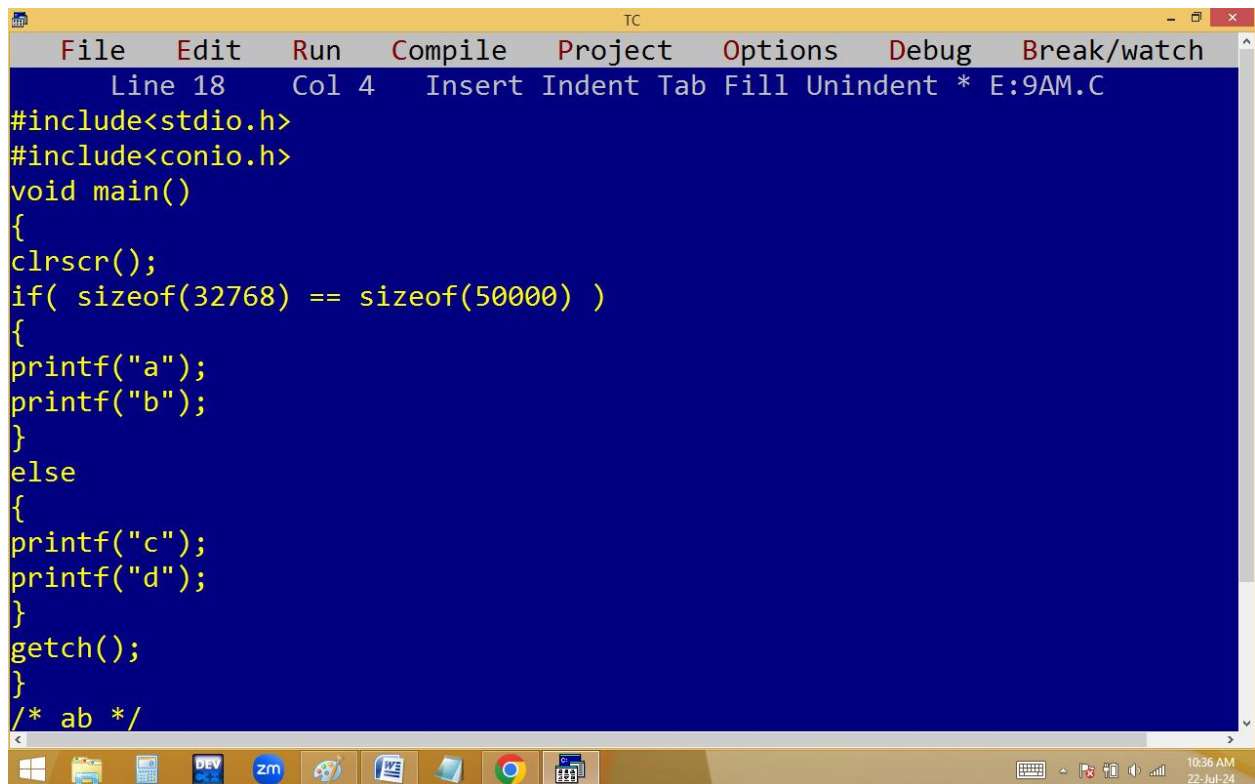
The Windows taskbar at the bottom is identical to the first screenshot, showing the same icons and system clock time of '10:31 AM 22-Jul-24'.



```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 18 Col 8 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( 1 )
{
printf("a");
printf("b");
}
else ;
{
printf("c");
printf("d");
}
getch();
}
/* abcd */
```



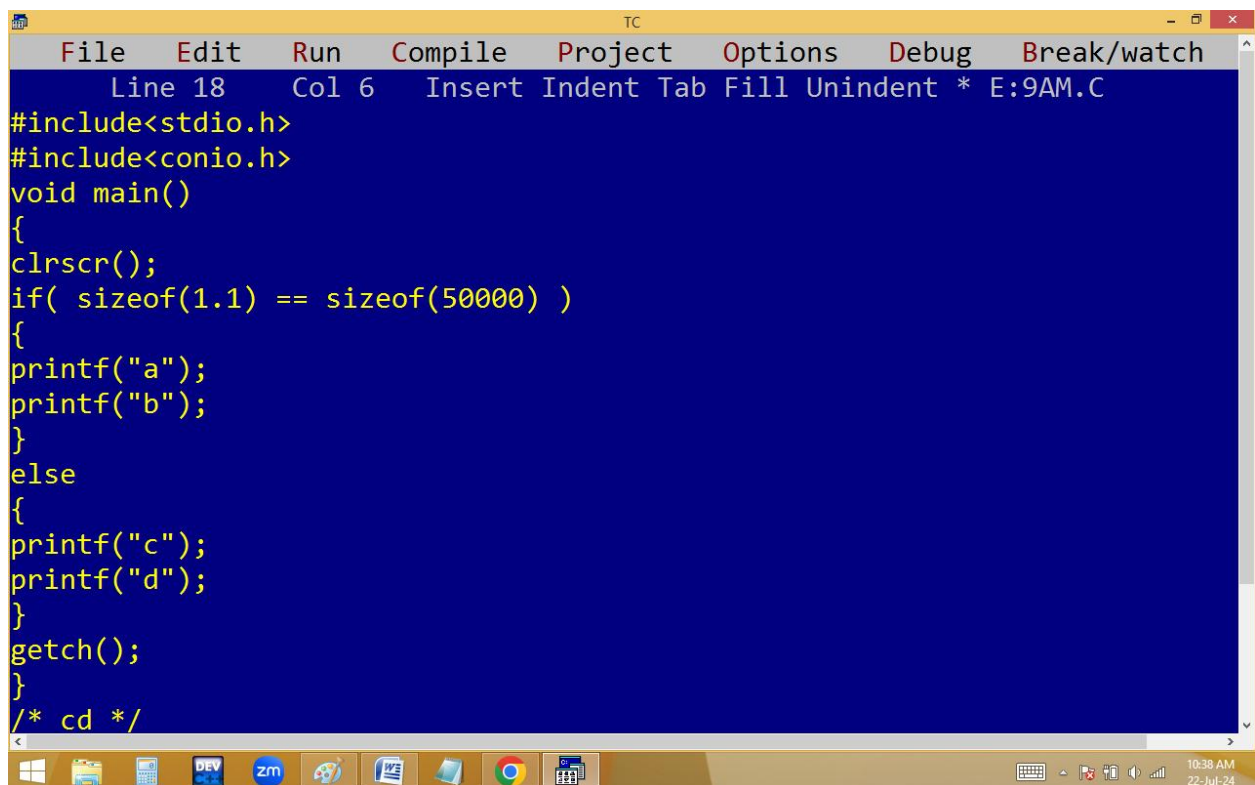
```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 18 Col 8 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( sizeof("xy") > printf("xy") )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* xyab */
```



The screenshot shows the Turbo C++ (TC) IDE interface. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 18 Col 4' and 'Insert Indent Tab Fill Unindent * E:9AM.C'. The code editor contains the following C program:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( sizeof(32768) == sizeof(50000) )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* ab */
```

The Windows taskbar at the bottom shows various icons including Windows, File Explorer, DEV, zm, and others. The system clock in the bottom right corner displays '10:36 AM 22-Jul-24'.



The screenshot shows the Turbo C++ (TC) IDE interface. The menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the top indicates 'Line 18 Col 6' and 'Insert Indent Tab Fill Unindent * E:9AM.C'. The code editor contains the following C program:

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if( sizeof(1.1) == sizeof(50000) )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* cd */
```

The Windows taskbar at the bottom shows various icons including Windows, File Explorer, DEV, zm, and others. The system clock in the bottom right corner displays '10:38 AM 22-Jul-24'.

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.1;
clrscr();
if( 1.1 == a )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* cd */
```

```
TC
Line 19 Col 6 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.1;
clrscr();
if( 1.1f == a )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* ab */
```

```
TC
Line 19 Col 8 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.5;
clrscr();
if( 1.5 == a )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* ab */
```

```
TC
Line 19 Col 9 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.0;
clrscr();
if( 1.0 == a )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* ab */
```

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.9;
clrscr();
if( 1.9 == a )
{
printf("a");
printf("b");
}
else
{
printf("c");
printf("d");
}
getch();
}
/* cd_*/
```

