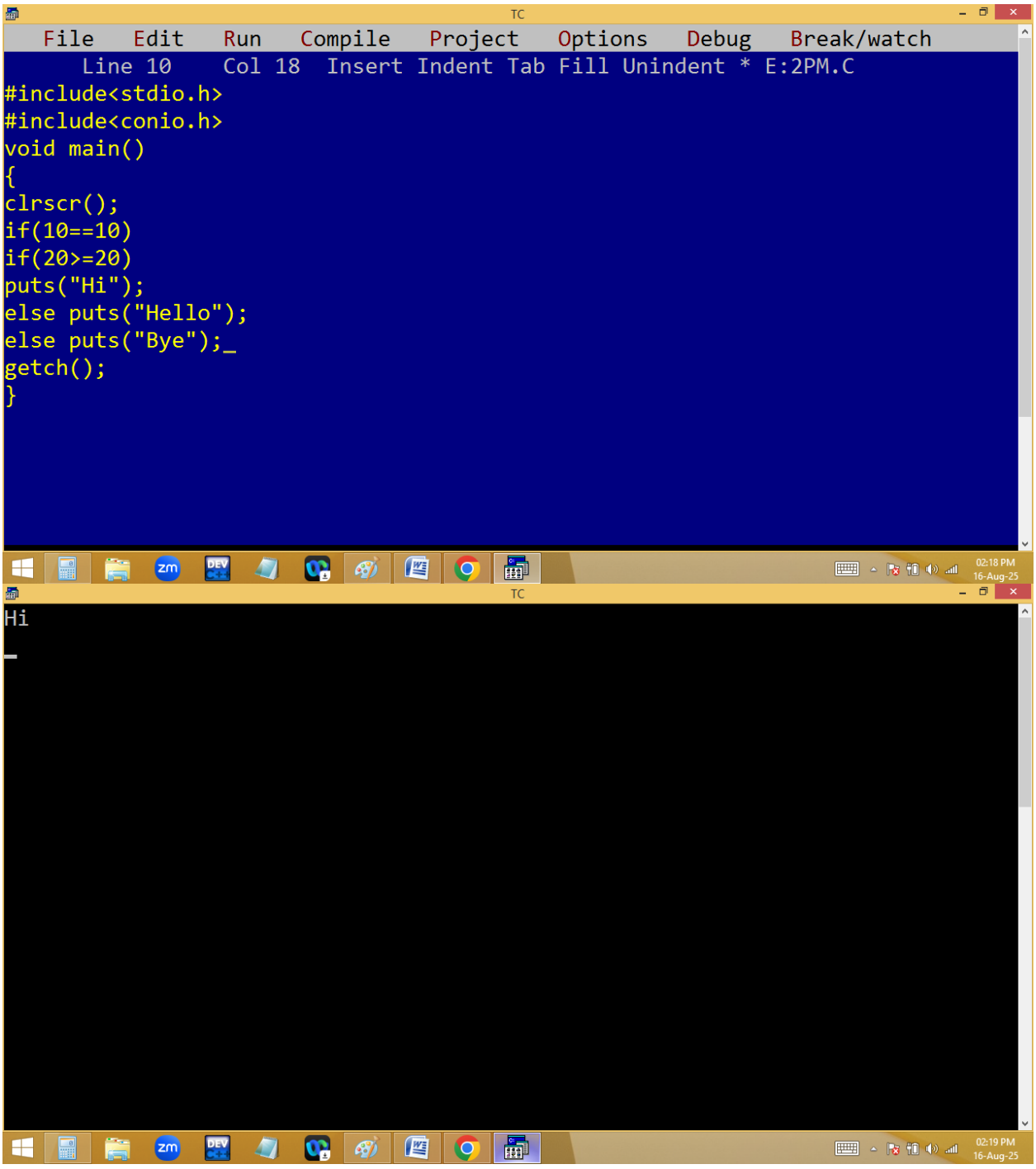
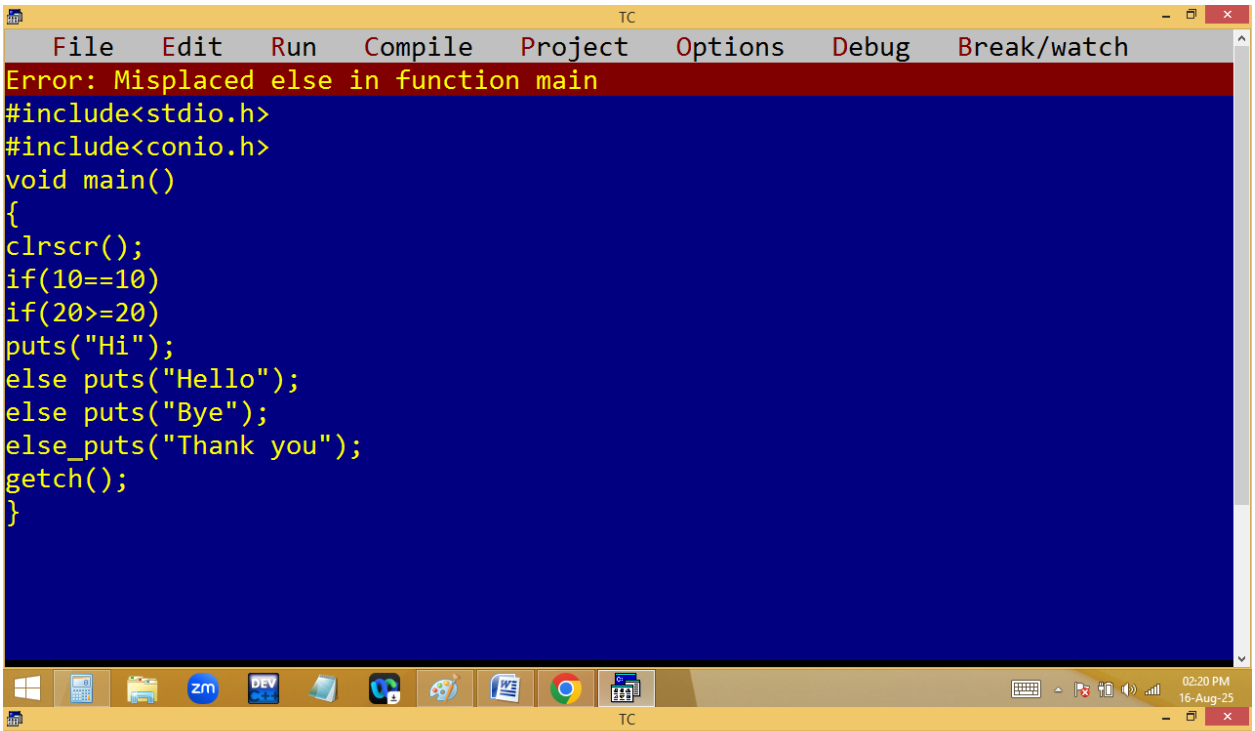
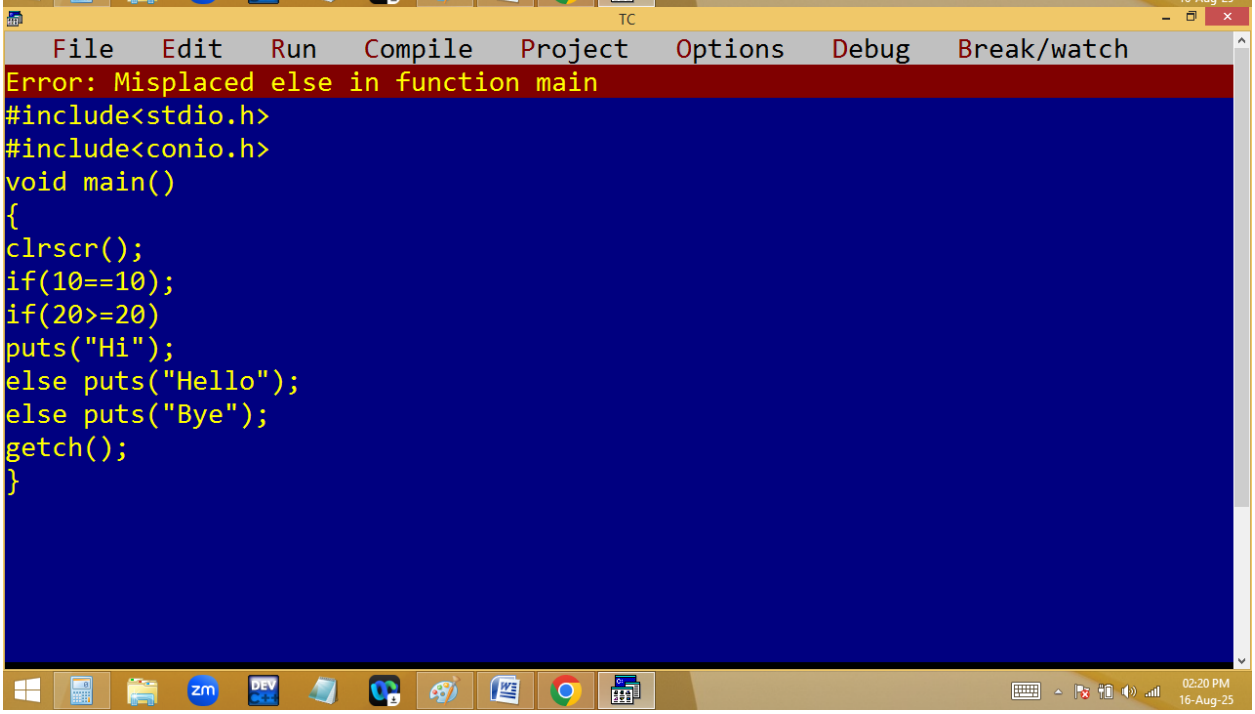
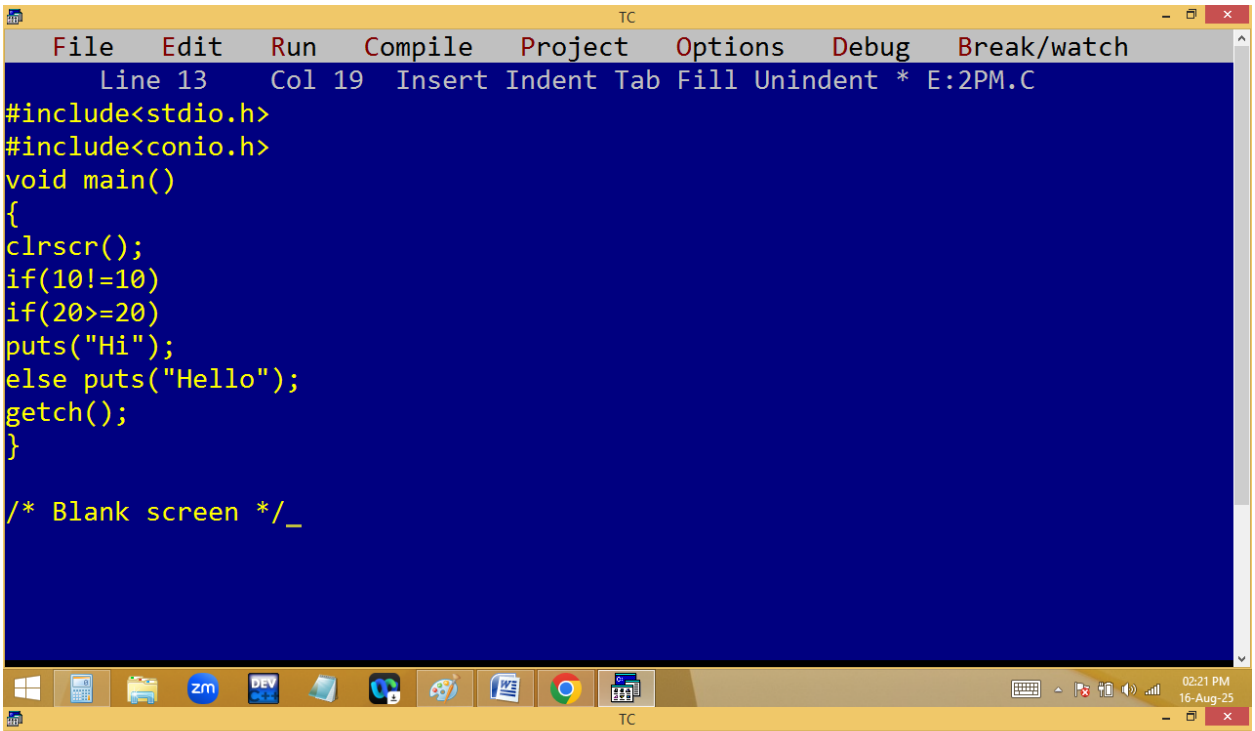
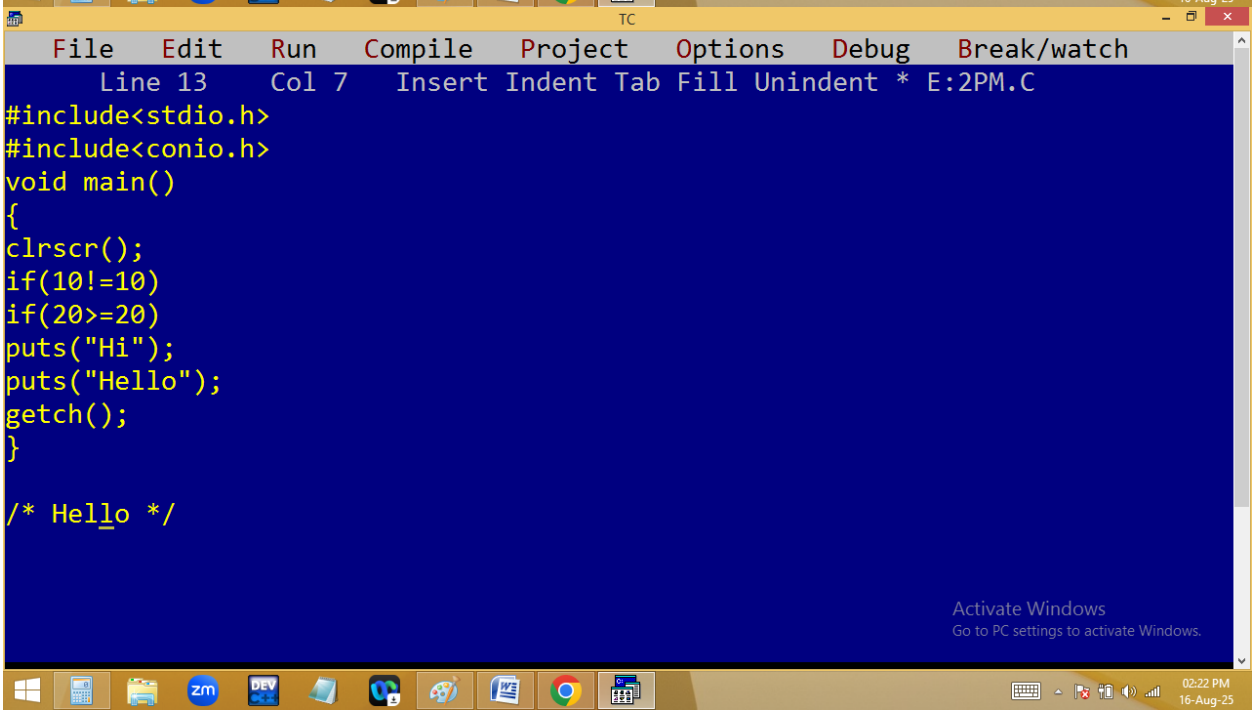
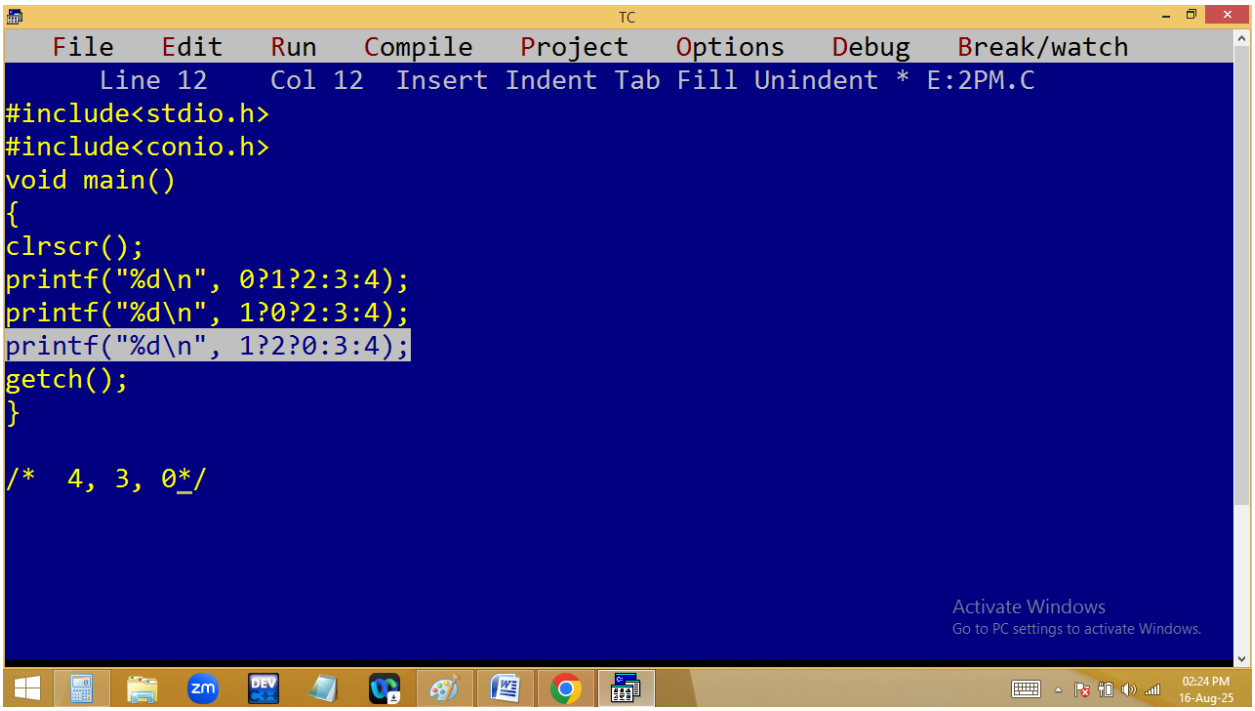

TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 18 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(10==10)
if(20>=20)
puts("Hi");
else puts("Hello");
else puts("Bye");_
getch();
}
02:18 PM
16-Aug-25
TC
Hi
02:19 PM
16-Aug-25

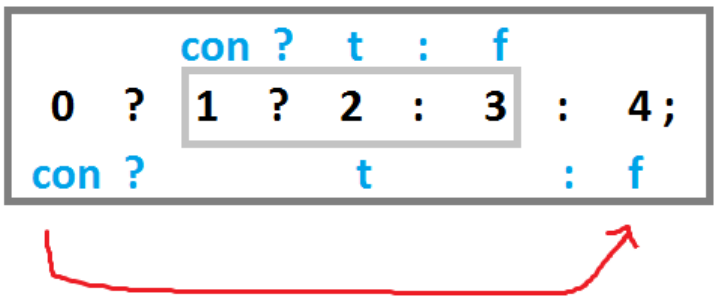

TC
File Edit Run Compile Project Options Debug Break/watch
Error: Misplaced else in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(10==10)
if(20>=20)
puts("Hi");
else puts("Hello");
else puts("Bye");
else_puts("Thank you");
getch();
}

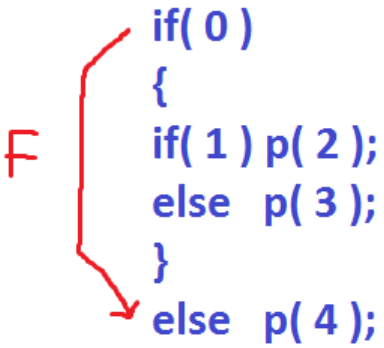

TC
File Edit Run Compile Project Options Debug Break/watch
Error: Misplaced else in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(10==10);
if(20>=20)
puts("Hi");
else puts("Hello");
else puts("Bye");
getch();
}

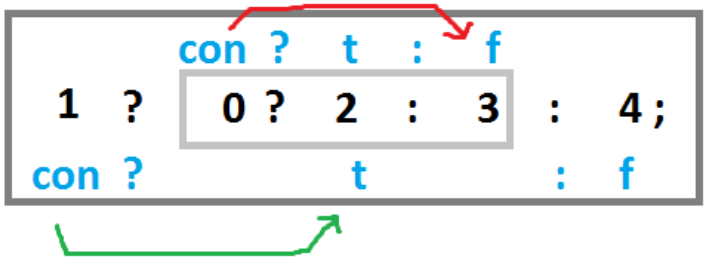

TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 19 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(10!=10)
if(20>=20)
puts("Hi");
else puts("Hello");
getch();
}
/* Blank screen */_

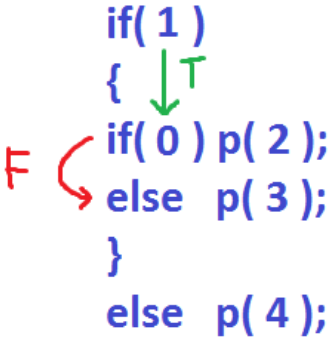

TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 7 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
if(10!=10)
if(20>=20)
puts("Hi");
puts("Hello");
getch();
}
/* Hello */
Activate Windows
Go to PC settings to activate Windows.

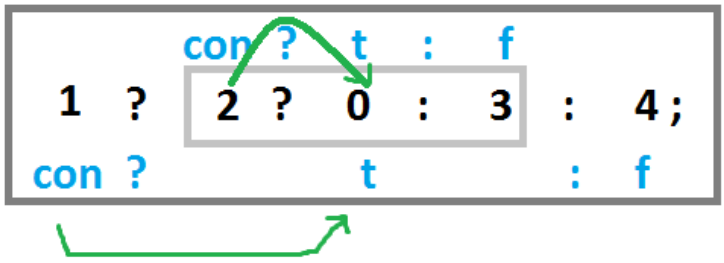

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 12 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n", 0?1?2:3:4);
printf("%d\n", 1?0?2:3:4);
printf("%d\n", 1?2?0:3:4);
getch();
}
/* 4, 3, 0*/
Activate Windows
Go to PC settings to activate Windows.


con ? t : f
0 ? 1 ? 2 : 3 : 4;
con ? t : f


if(0)
{
if(1) p(2);
else p(3);
}
else p(4);
F


con ? t : f
1 ? 0 ? 2 : 3 : 4;
con ? t : f


if(1)
{
T
if(0) p(2);
else p(3);
}
else p(4);
F




```
if( 1 )
{
if( 2 ) p( 0 );
else  p( 3 );
}
else  p( 4 );
```

SWITCH STATEMENT

It is a selection statement.

It is used to execute one case of statements from no of cases according to the switch expression value matched with case expression value. In switch the program is jumped to matching case like the go to label.

It is similar to ladder if in working style.

Switch performance is high when compared with ladder if because of it jumps to matching case.

Syntax:

switch(**condition / expression**)

{

case **constexp1:**

statements;

break;

case **constexp2:**

statements;

break;

case **constexpN**:

statements;

break;

[**default:** statements;]

}

Here switch, case, break, default are the keywords.

In between case and case expression / value at least one space should be provided. Otherwise it will become a label.

case expression/value should be a constant integer/char value. i.e. float / string not allowed.

One case contains one expression only.
case expression doesn't contain any separators like , . etc.

case expression should be end with : (colon)

Each case should be separated with break keyword. Otherwise remaining cases also executed.

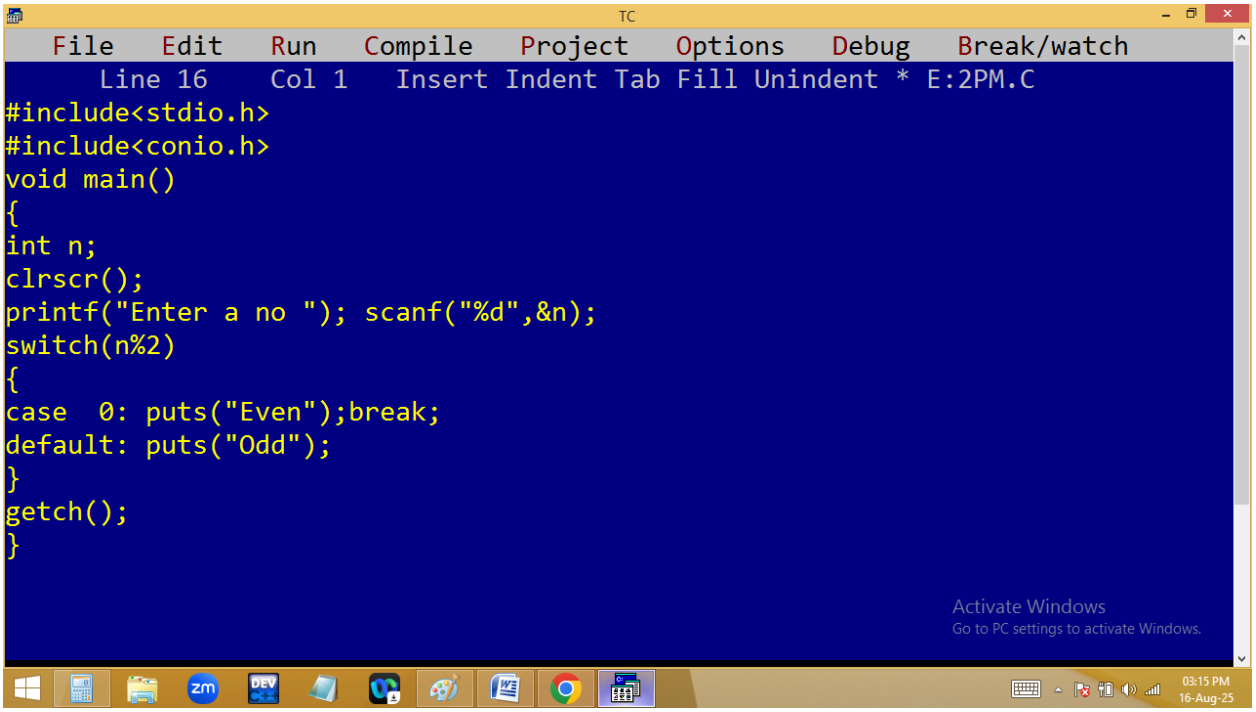
Duplicate cases not allowed.

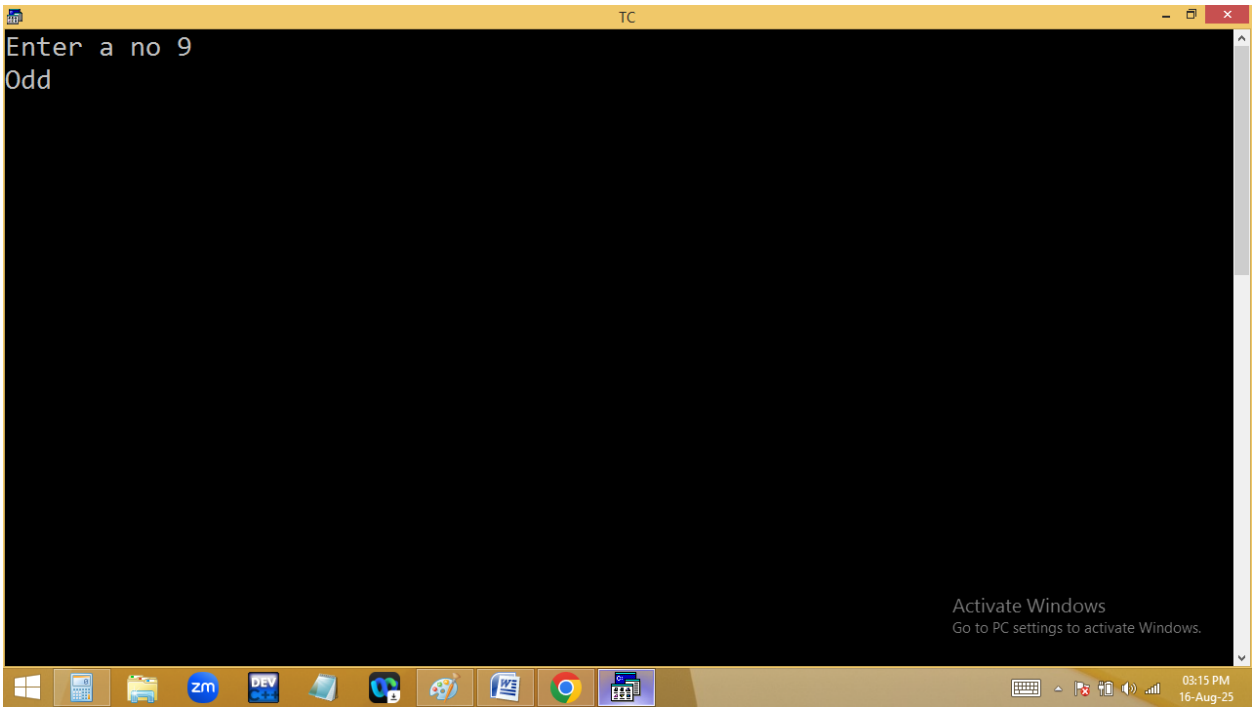
default is similar to the else and all cases are failed then default statements are executed. Default is optional and we can declare it anywhere in our switch.

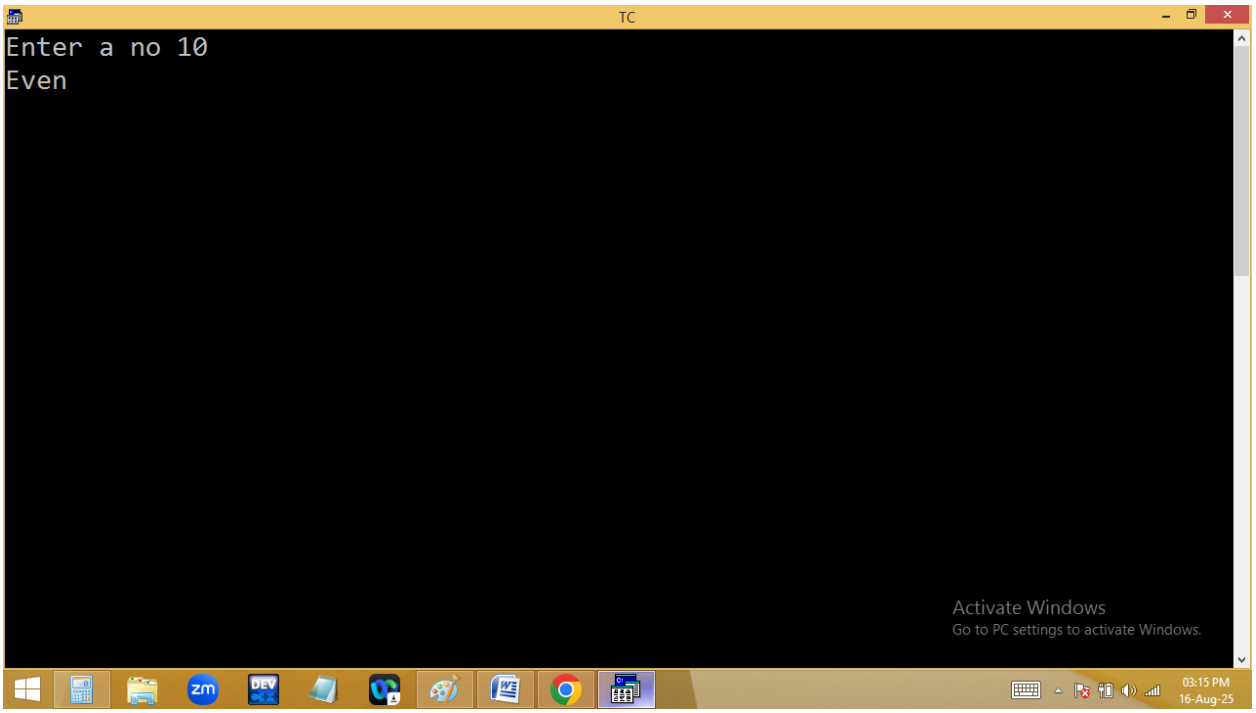
Outside case expressions not considered in switch.

1. Case value should be a const int.
2. Variables not allowed in case.
3. Float / string not allowed.
4. Duplicate cases not allowed.
5. Case and case value have to separated with at least one space.
6. If space not provided then it is converted into a label.
7. Every case should be end with :
8. Break is optional and when it is not there, remaining case also executed until the next break is occurred.
9. Case doesn’t allows range of values.
10. Case doesn’t allows , . like separators,
11. Default is optional and working similar to else. We can declare default anywhere.
12. Switch, case, break and default are the keywords.

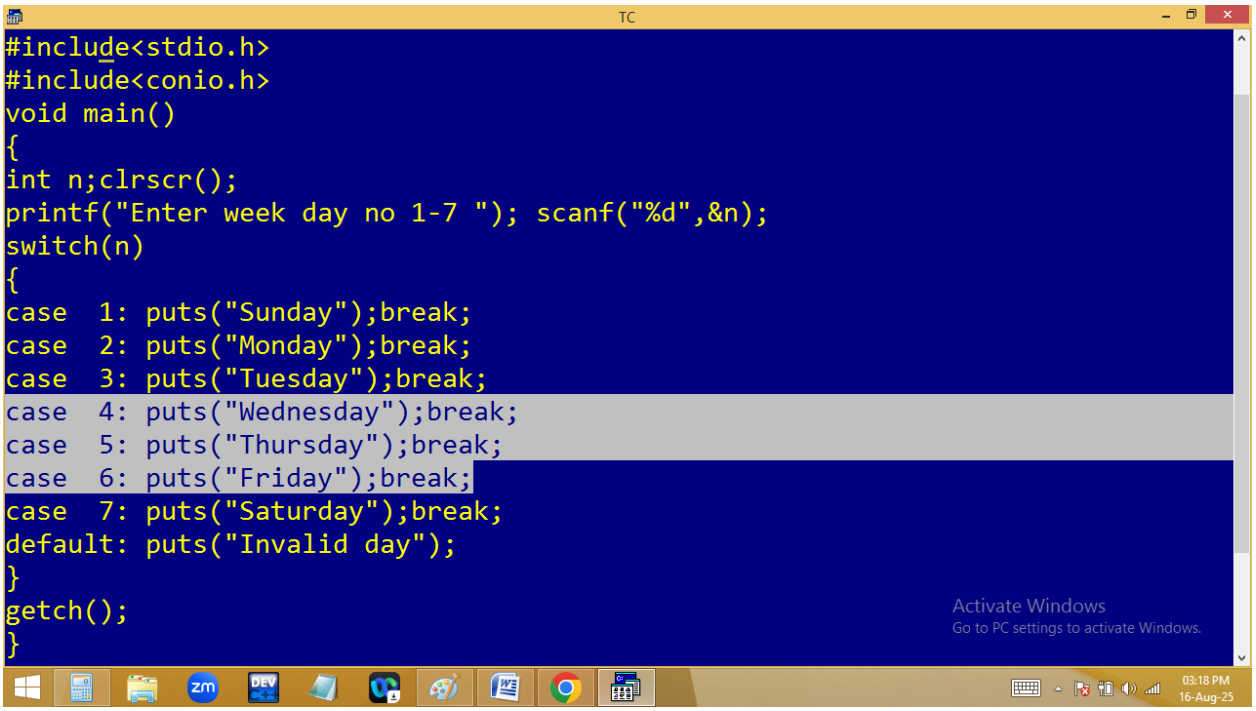
Finding even/odd using switch:

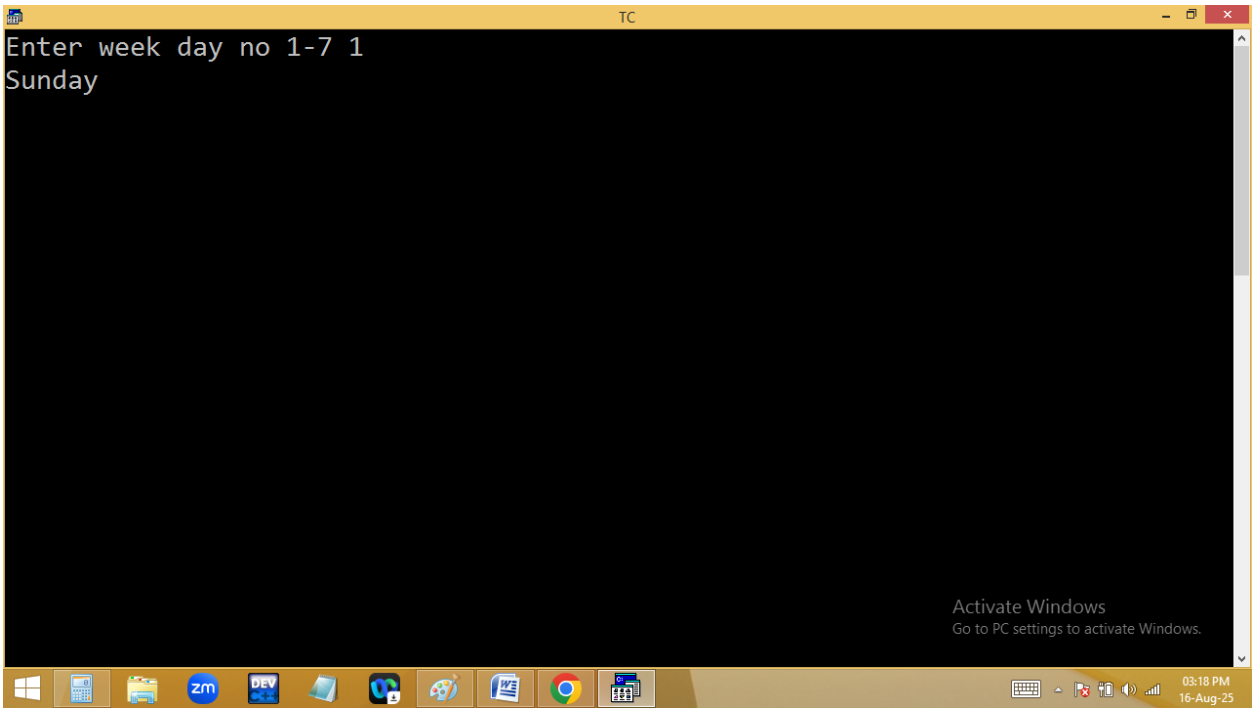


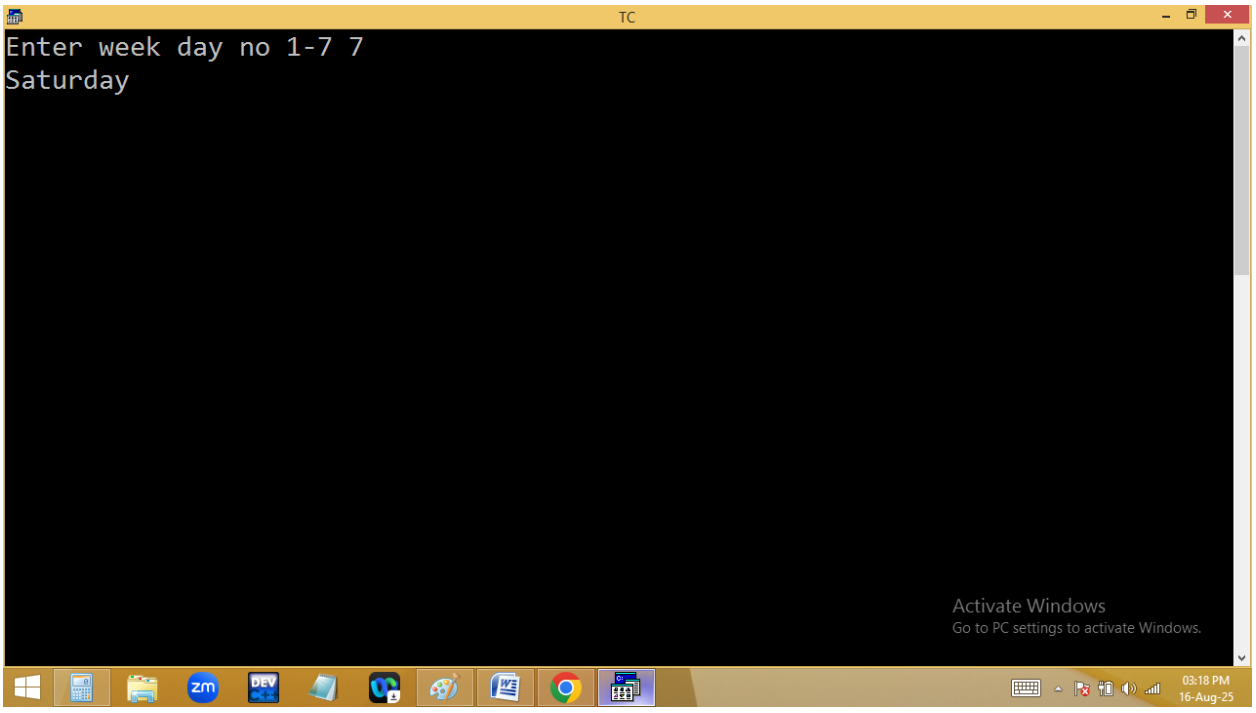


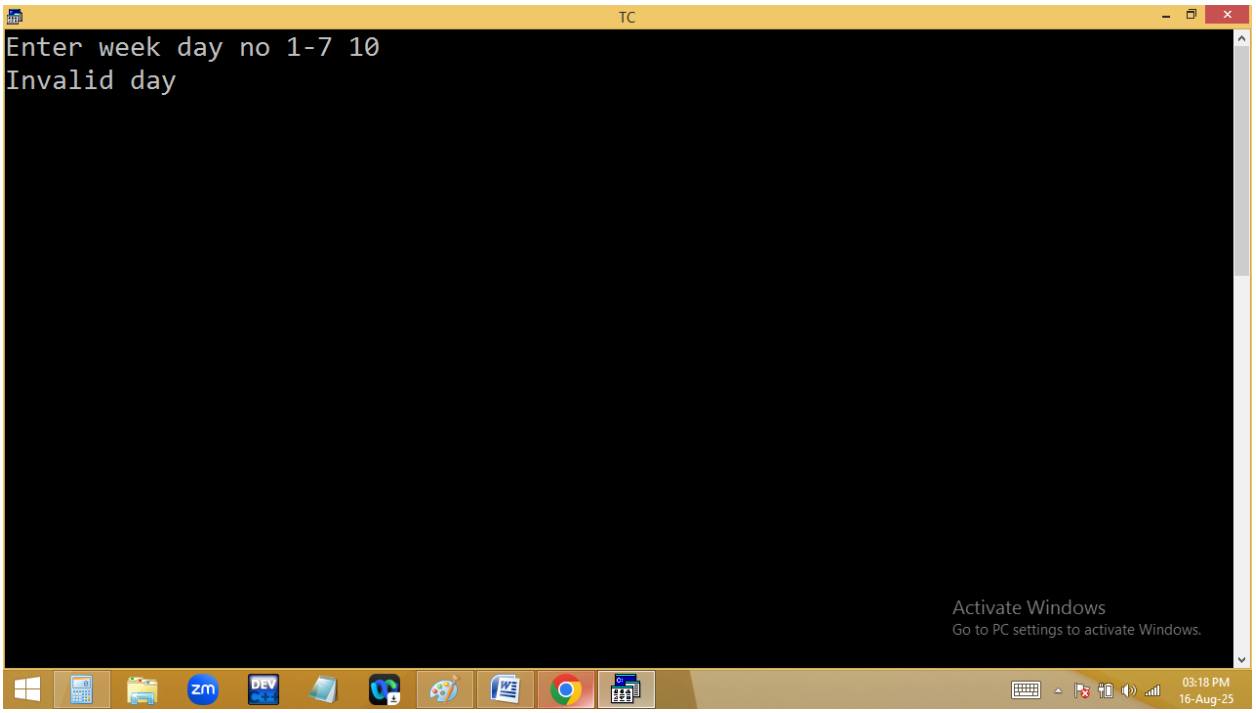


Finding week day name:

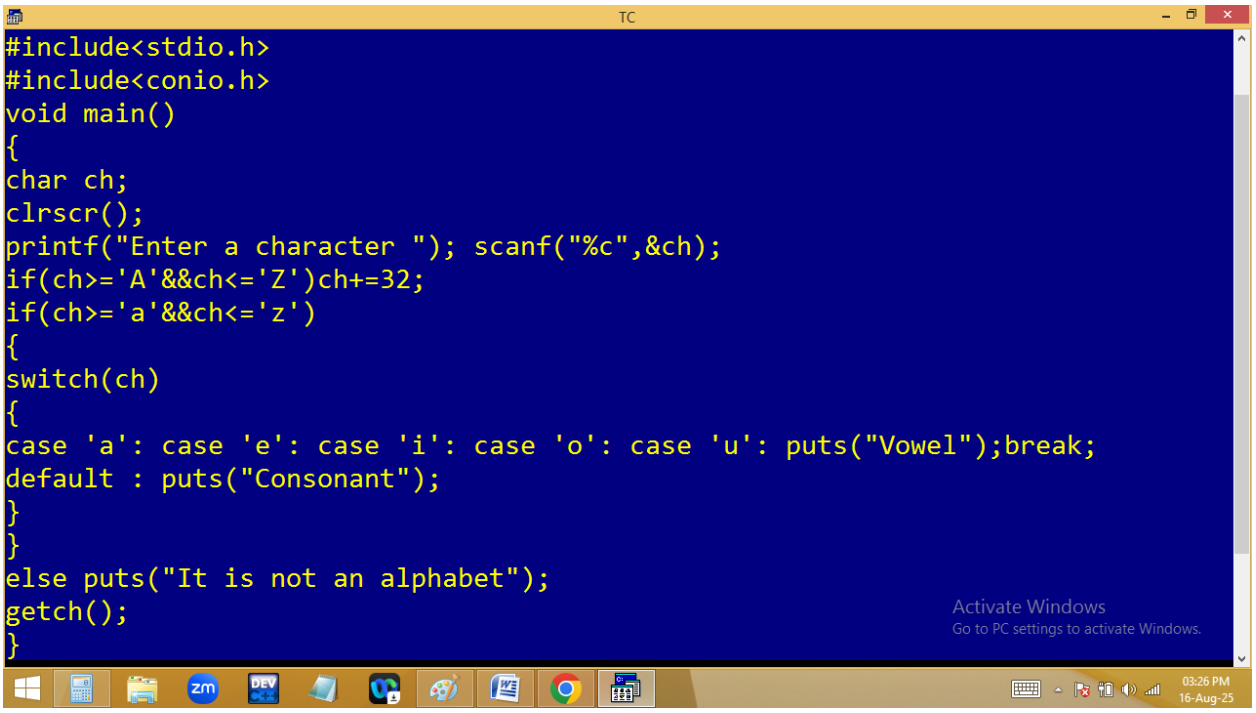


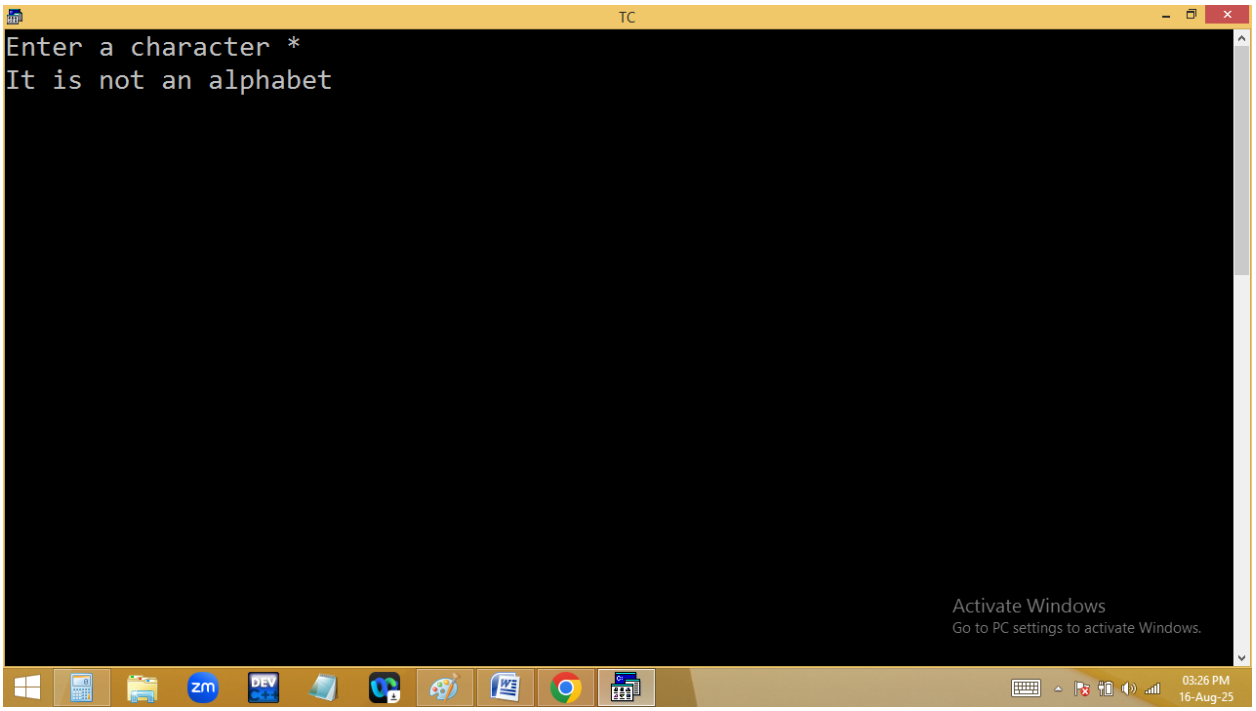

TC
Enter week day no 1-7 1
Sunday
Activate Windows
Go to PC settings to activate Windows.
03:18 PM
16-Aug-25

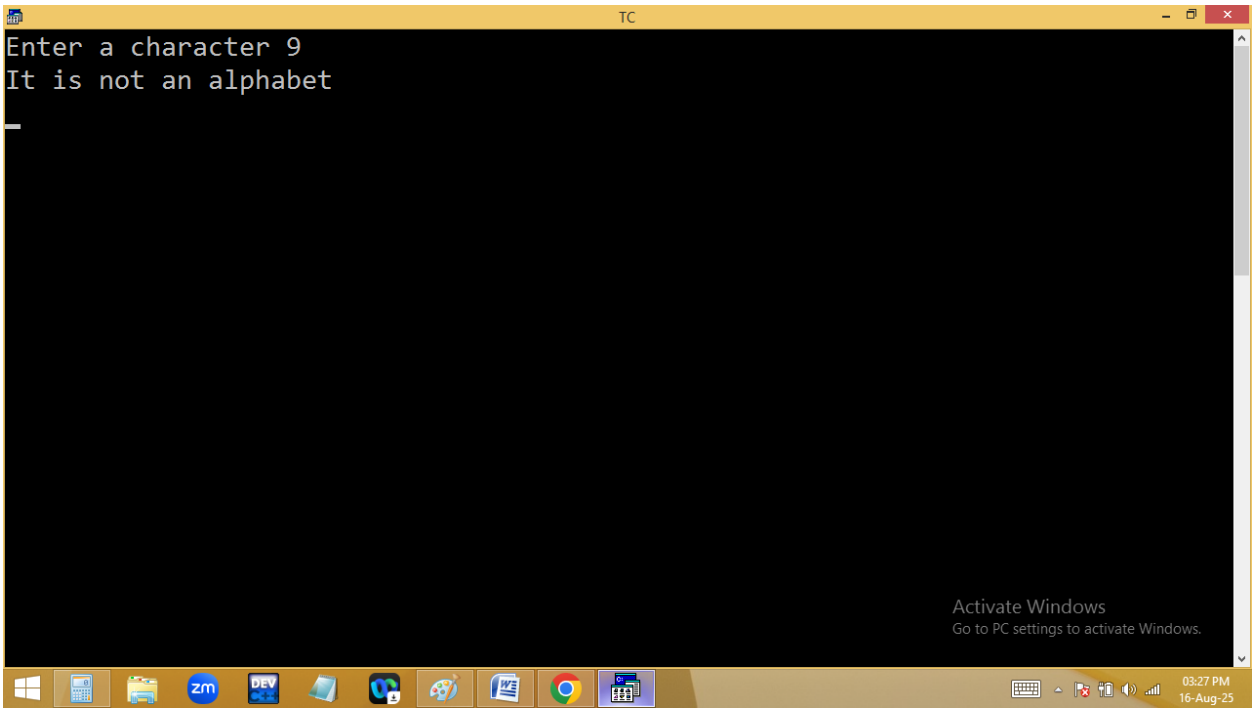

TC
Enter week day no 1-7 7
Saturday
Activate Windows
Go to PC settings to activate Windows.
03:18 PM
16-Aug-25

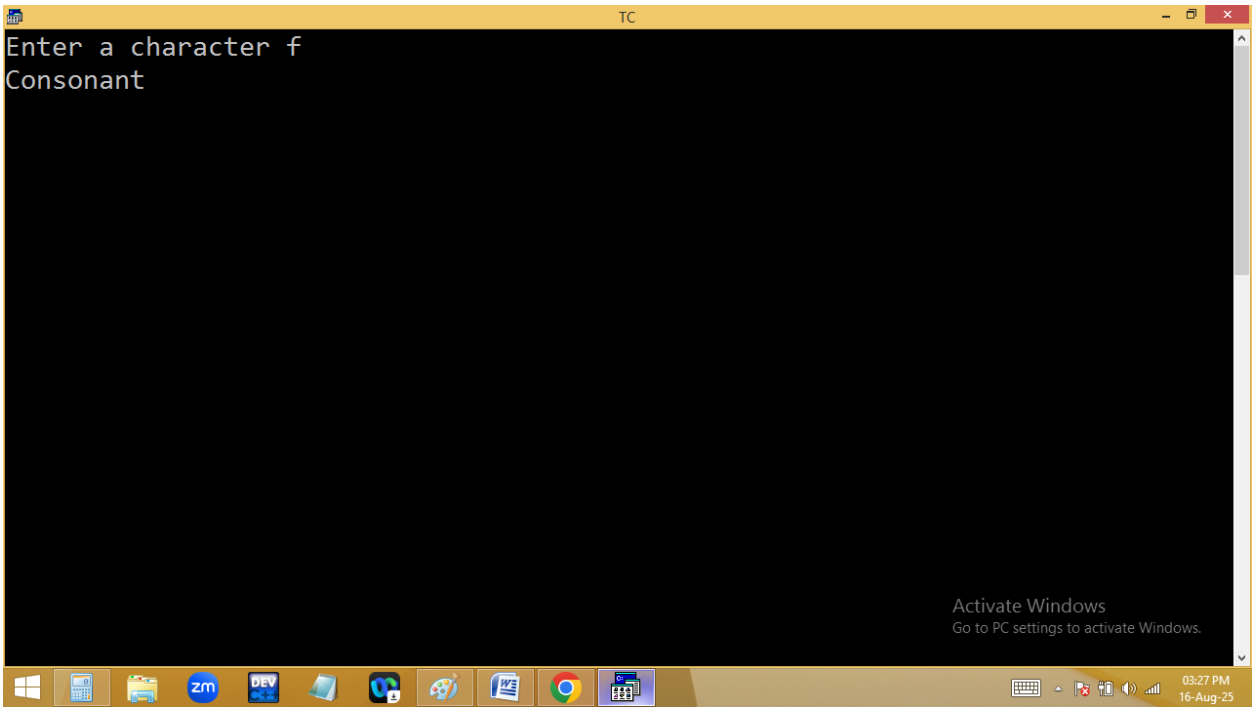


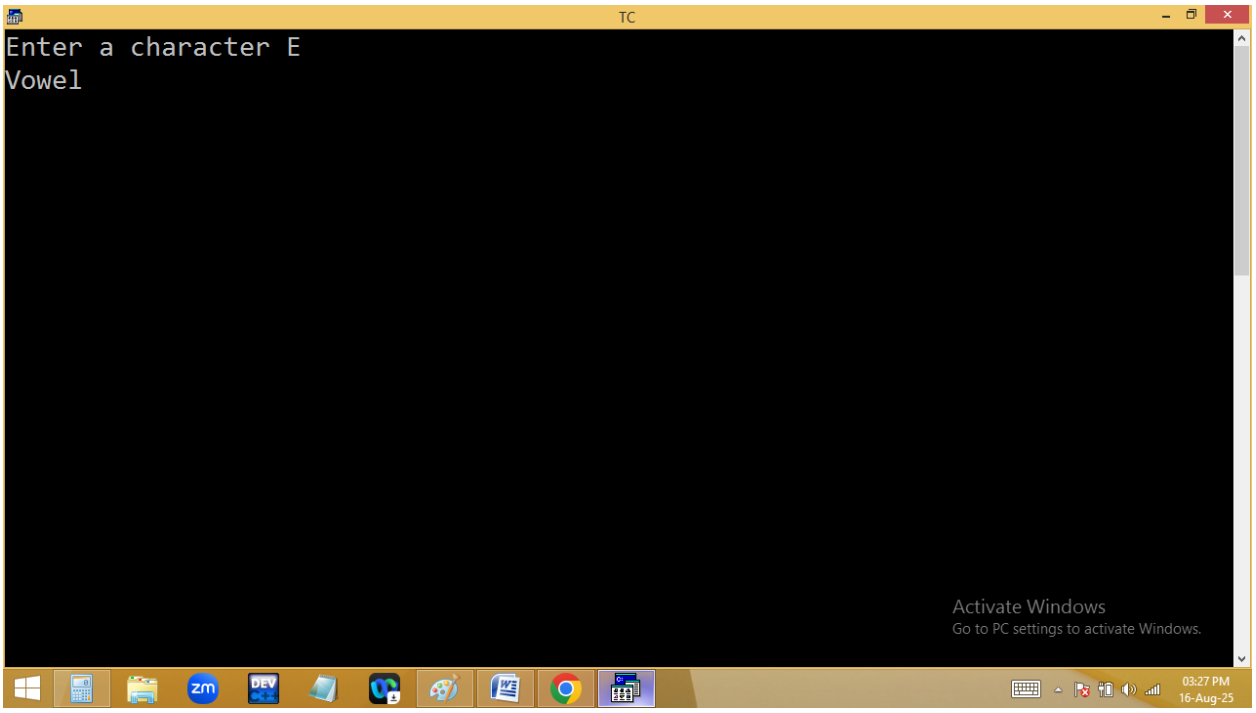
Read a character and find out it is vowel/consonant using switch?

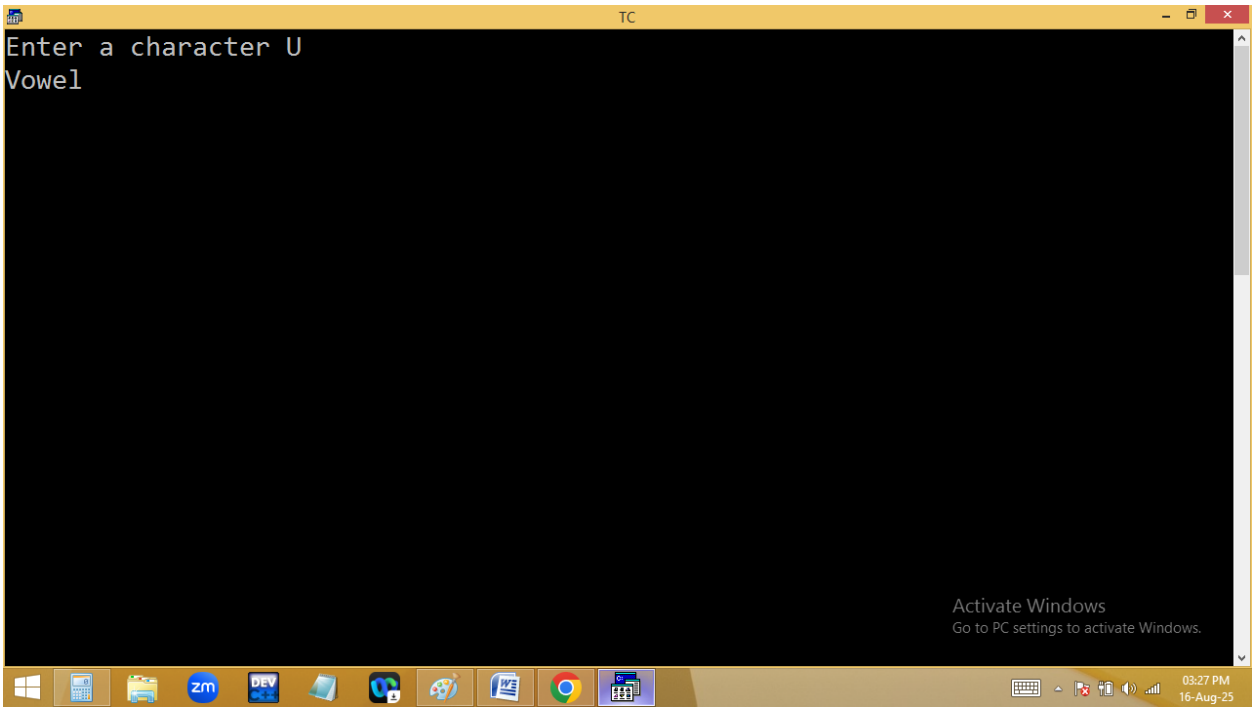

TC
#include<stdio.h>
#include<conio.h>
void main()
{
char ch;
clrscr();
printf("Enter a character "); scanf("%c",&ch);
if(ch>='A'&&ch<='Z')ch+=32;
if(ch>='a'&&ch<='z')
{
switch(ch)
{
case 'a': case 'e': case 'i': case 'o': case 'u': puts("Vowel");break;
default : puts("Consonant");
}
}
else puts("It is not an alphabet");
getch();
}
Activate Windows
Go to PC settings to activate Windows.
03:26 PM
16-Aug-25

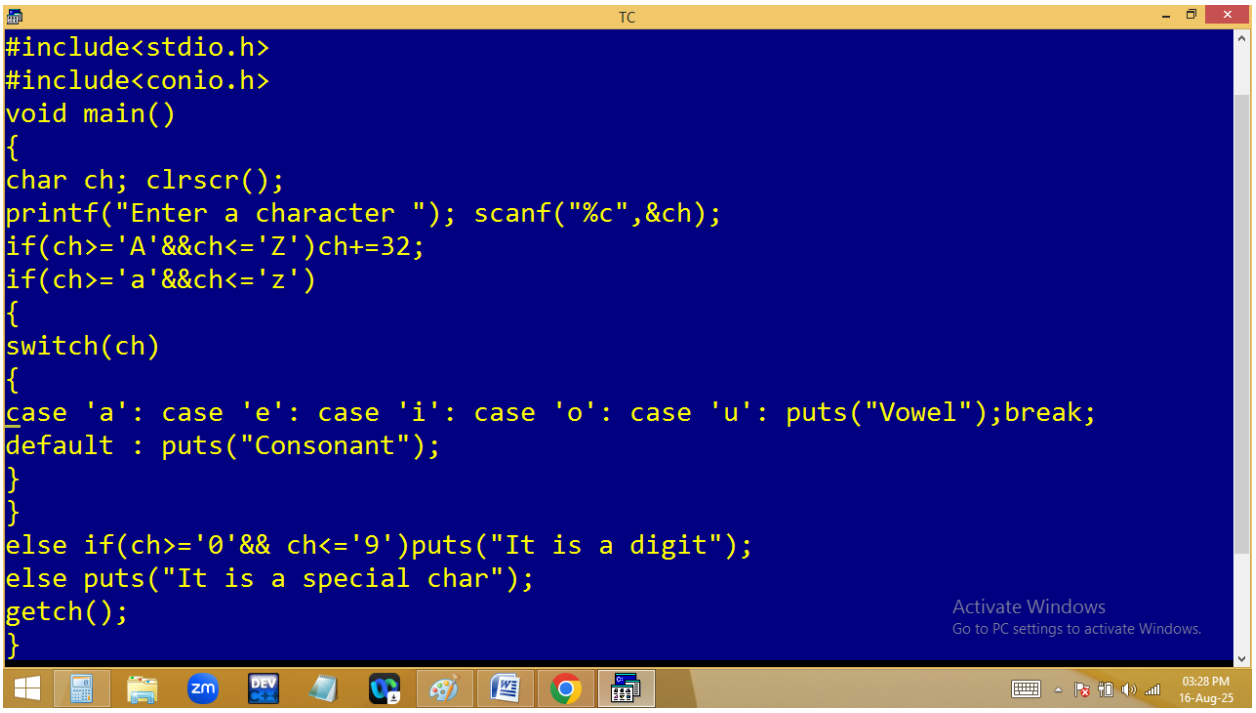

TC
Enter a character *
It is not an alphabet
Activate Windows
Go to PC settings to activate Windows.
03:26 PM
16-Aug-25

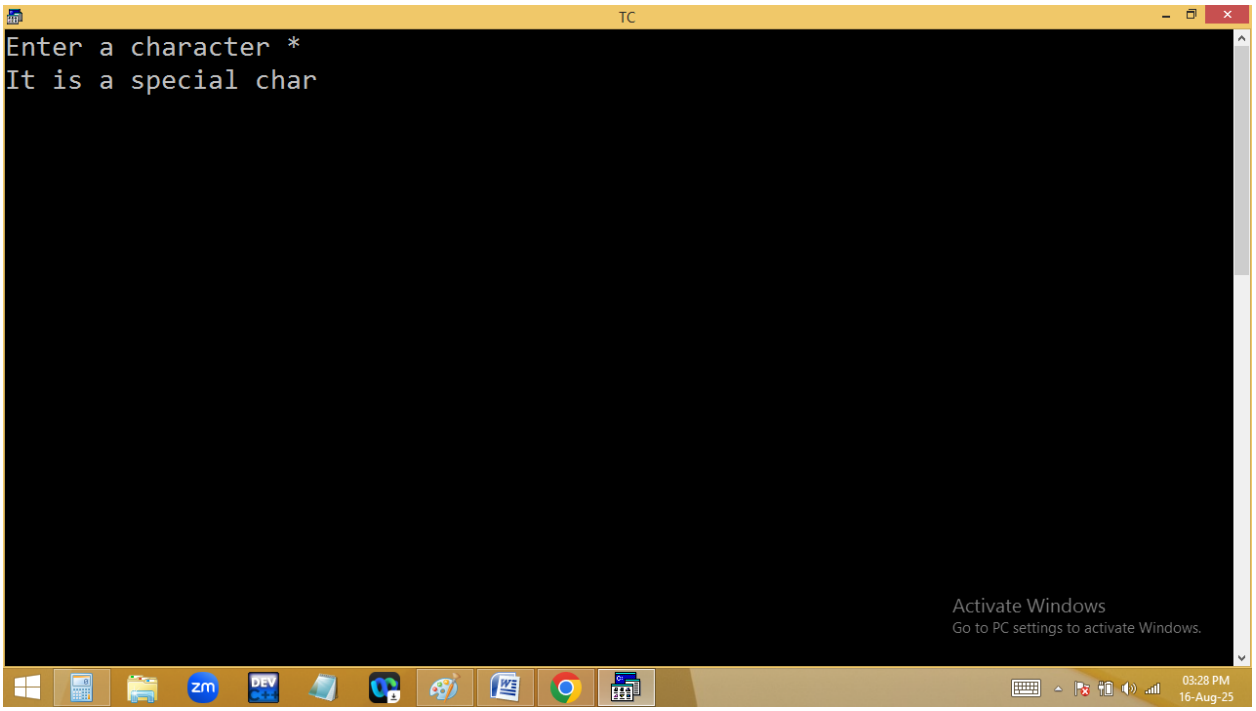

TC
Enter a character 9
It is not an alphabet
Activate Windows
Go to PC settings to activate Windows.
03:27 PM
16-Aug-25

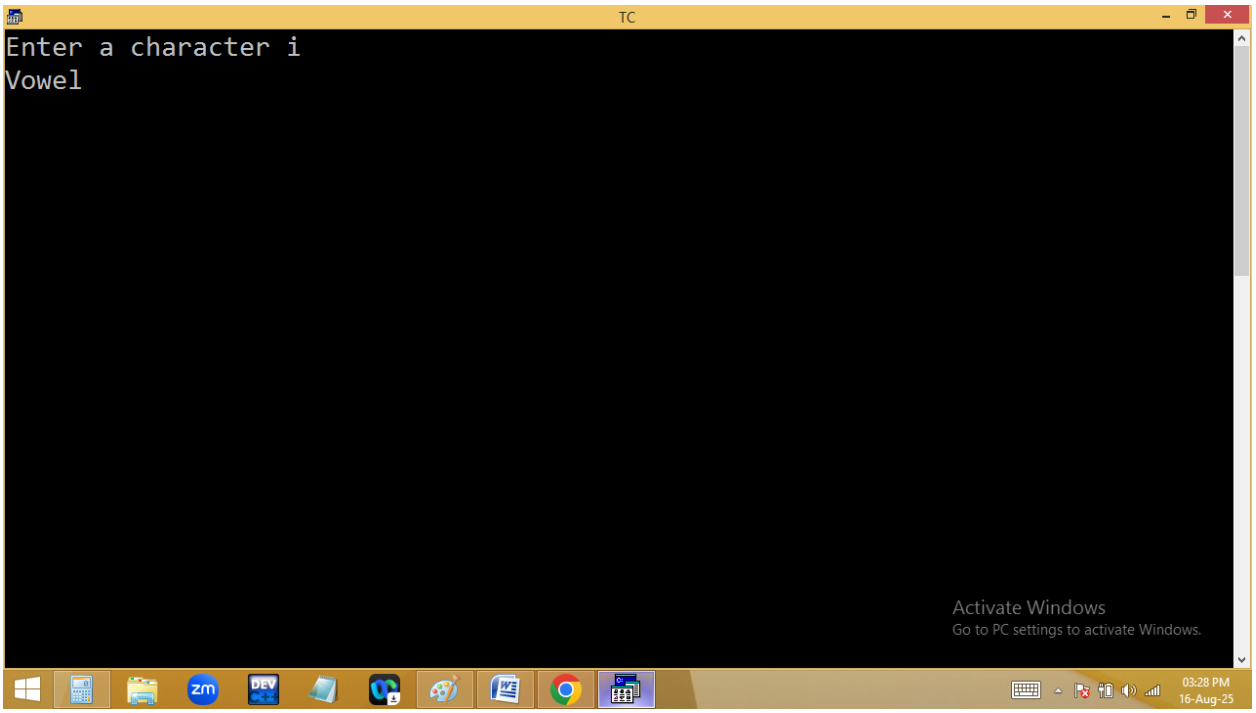

TC
Enter a character f
Consonant
Activate Windows
Go to PC settings to activate Windows.
03:27 PM
16-Aug-25

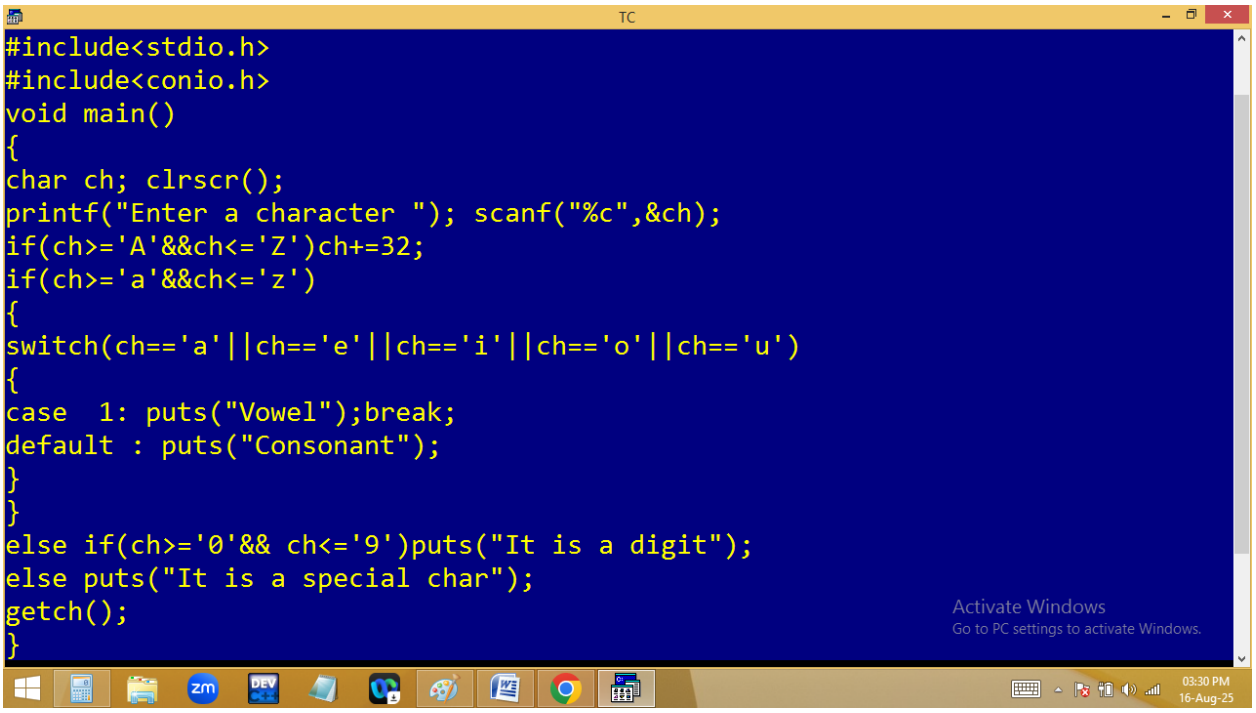

TC
Enter a character E
Vowel
Activate Windows
Go to PC settings to activate Windows.
03:27 PM
16-Aug-25

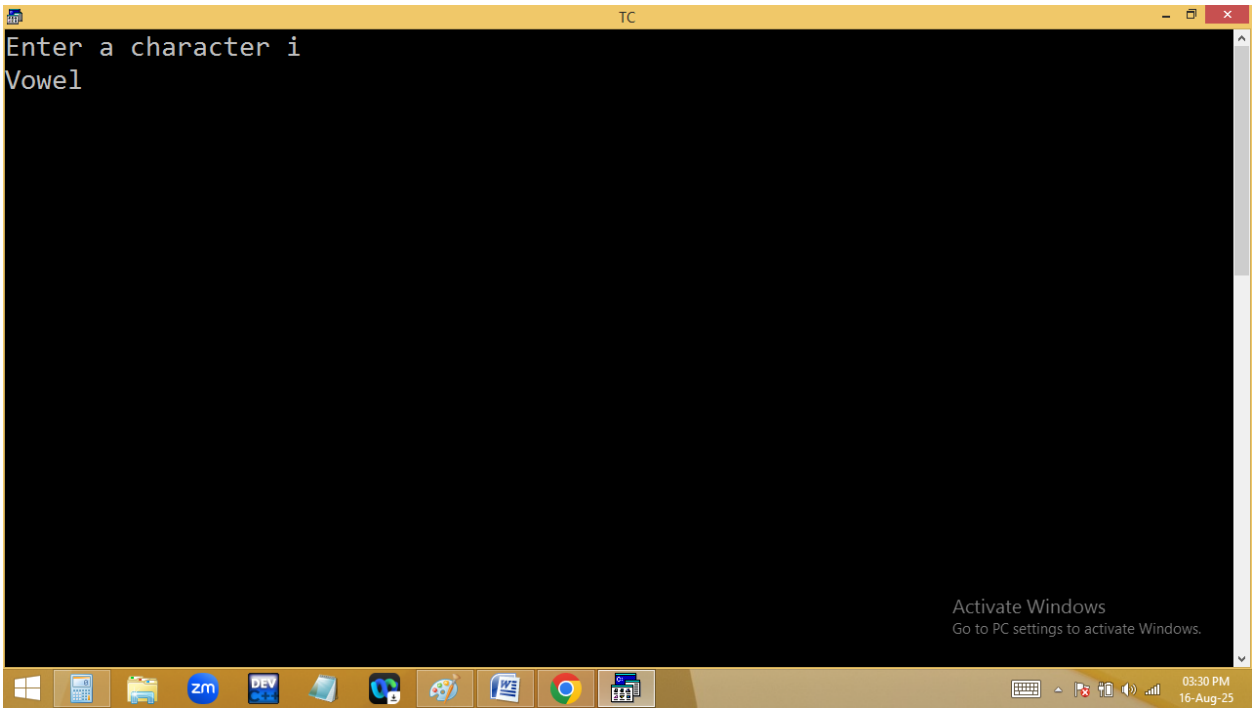

TC
Enter a character U
Vowel
Activate Windows
Go to PC settings to activate Windows.
03:27 PM
16-Aug-25

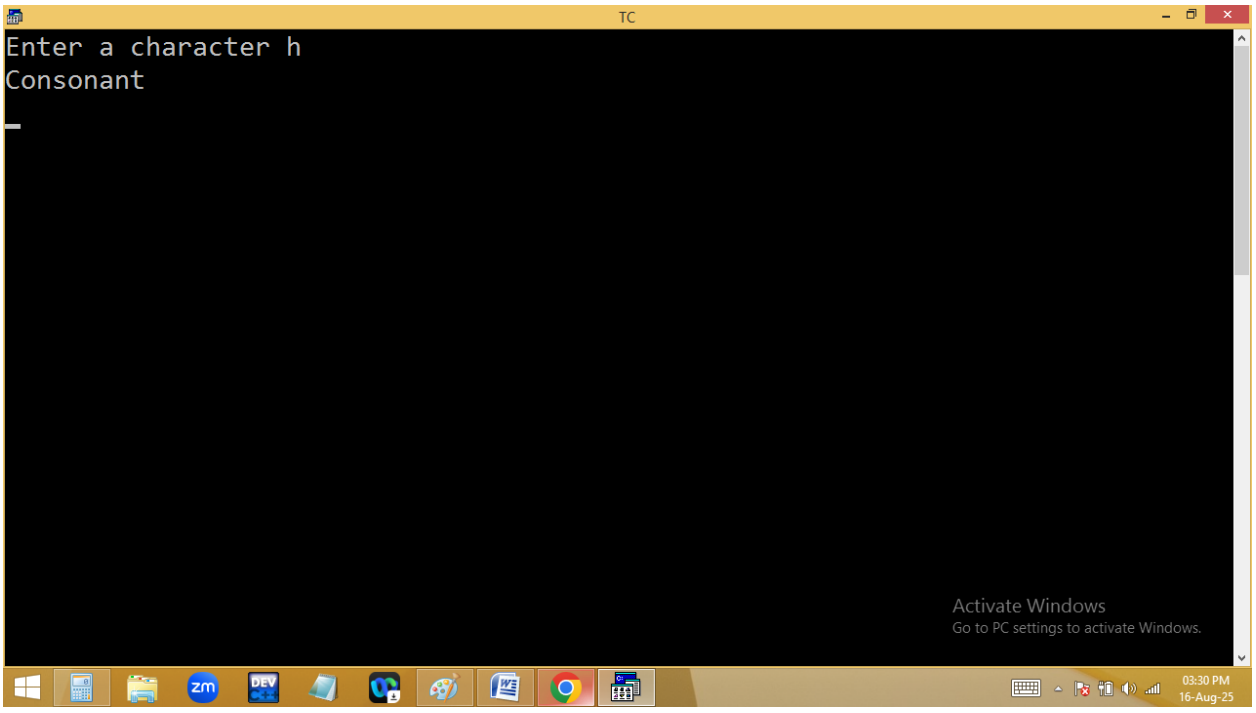

TC
#include<stdio.h>
#include<conio.h>
void main()
{
char ch; clrscr();
printf("Enter a character "); scanf("%c",&ch);
if(ch>='A'&&ch<='Z')ch+=32;
if(ch>='a'&&ch<='z')
{
switch(ch)
{
case 'a': case 'e': case 'i': case 'o': case 'u': puts("Vowel");break;
default : puts("Consonant");
}
}
else if(ch>='0'&& ch<='9')puts("It is a digit");
else puts("It is a special char");
getch();
}
Activate Windows
Go to PC settings to activate Windows.
03:28 PM
16-Aug-25

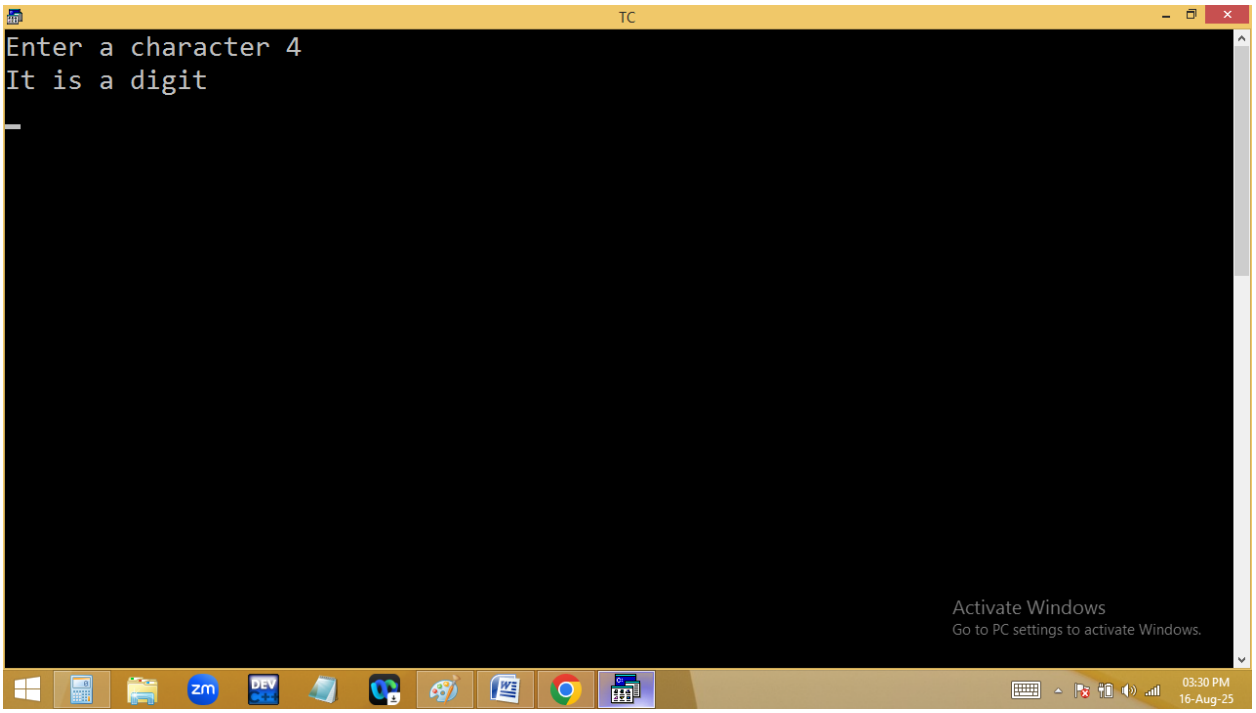

TC
Enter a character *
It is a special char
Activate Windows
Go to PC settings to activate Windows.
03:28 PM
16-Aug-25


TC
Enter a character i
Vowel
Activate Windows
Go to PC settings to activate Windows.
03:28 PM
16-Aug-25


TC
#include<stdio.h>
#include<conio.h>
void main()
{
char ch; clrscr();
printf("Enter a character "); scanf("%c",&ch);
if(ch>='A'&&ch<='Z')ch+=32;
if(ch>='a'&&ch<='z')
{
switch(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u')
{
case 1: 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();
}
Activate Windows
Go to PC settings to activate Windows.
03:30 PM
16-Aug-25


TC
Enter a character i
Vowel
Activate Windows
Go to PC settings to activate Windows.
03:30 PM
16-Aug-25


TC
Enter a character h
Consonant
Activate Windows
Go to PC settings to activate Windows.
03:30 PM
16-Aug-25



Home work:

HOTEL SAI BALAJI
AMEERPET - HYD

M E N U

1. Tea - 10/-
2. Coffee/Milk/Boost/Lemon Tea/Water bottle-20/-
3. Idly / dosa / upma / poha / bonda - 30/-
4. Sambar idly / wada / onion / masala / poori - 40/-
5. Veg biryani / Paneer dosa / Sambar wada / curd rice - 50
6. Bill
7. Cancel
8. Close

Enter ur choice [2]

Enter how many ? 1

Ur bill is 20/-