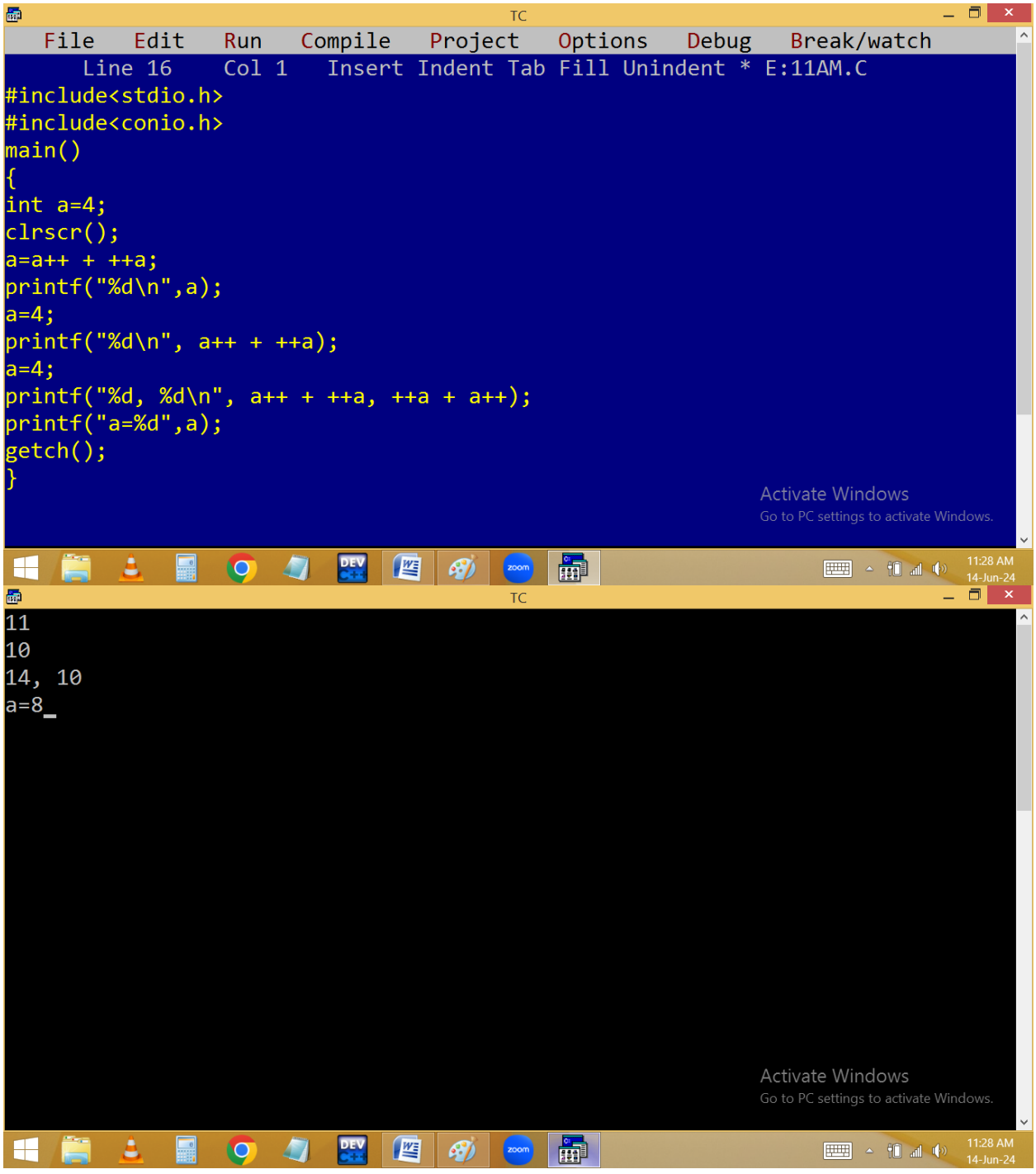
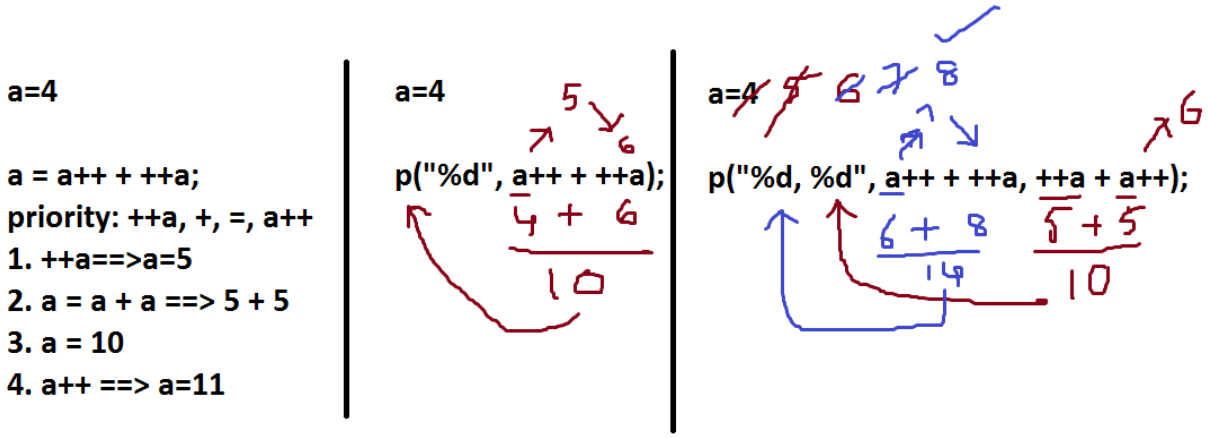

TC
File Edit Run Compile Project Options Debug Break/watch
Line 16 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=4;
clrscr();
a=a++ + ++a;
printf("%d\n",a);
a=4;
printf("%d\n", a++ + ++a);
a=4;
printf("%d, %d\n", a++ + ++a, ++a + a++);
printf("a=%d",a);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
11:28 AM
14-Jun-24
TC
11
10
14, 10
a=8
Activate Windows
Go to PC settings to activate Windows.
11:28 AM
14-Jun-24



Compound assignment / shorthand operators:

Here we are using assignment operator with the combination of other operators as follows.

+=, -=, *=, %=, /=, <<=, >>=, ~=,...

Eg:

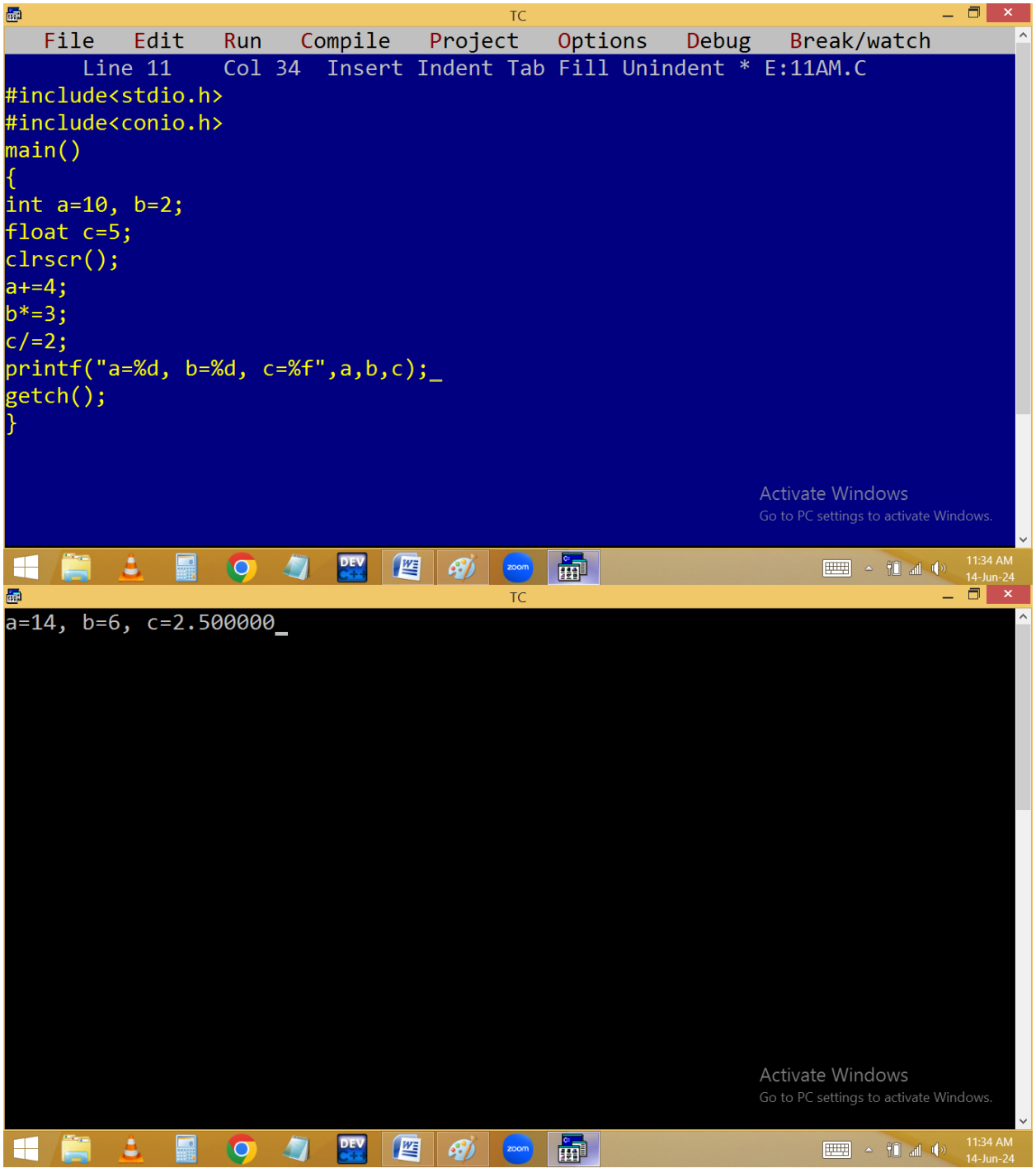
int a=10, b=2;

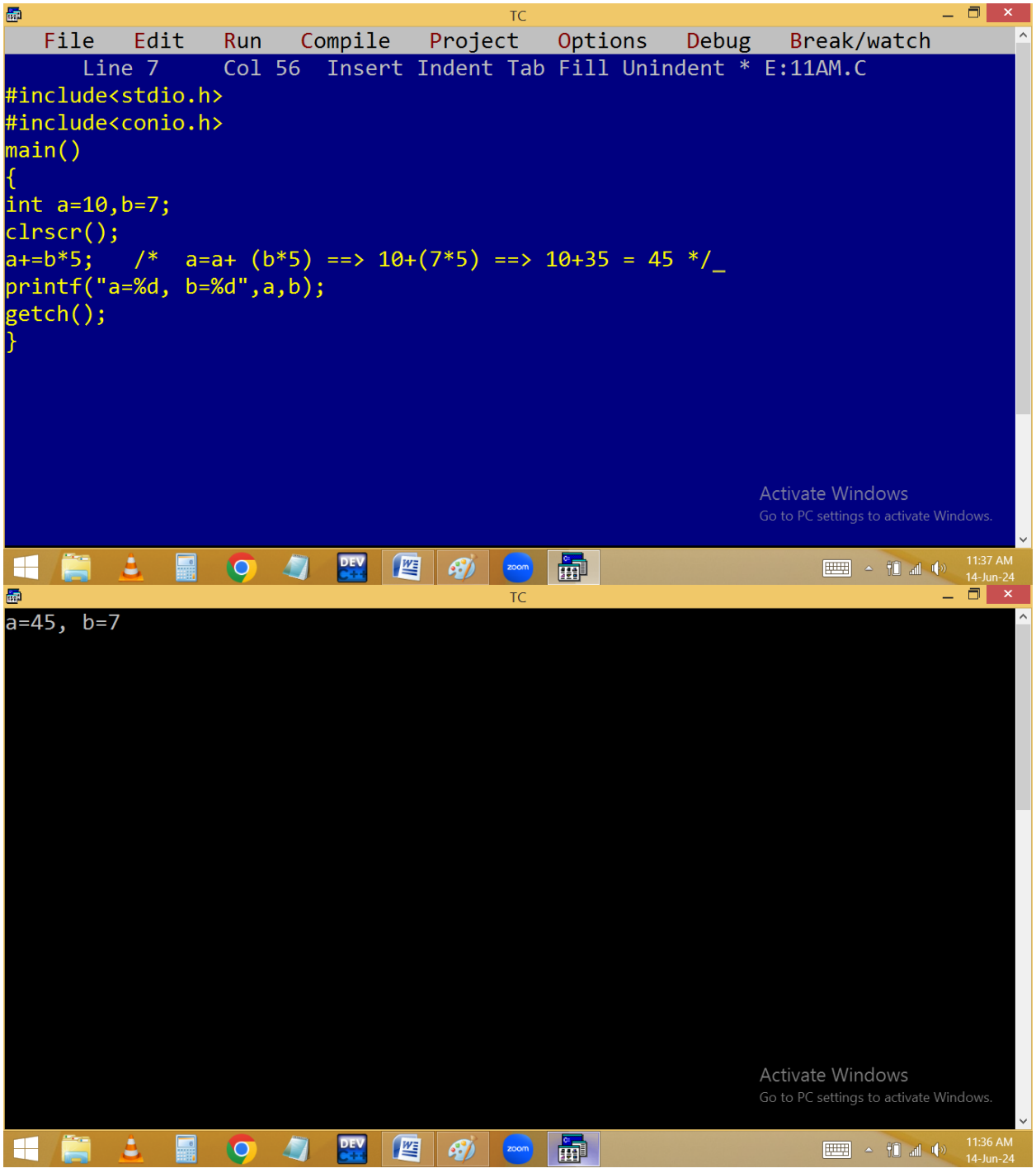
float c=5;

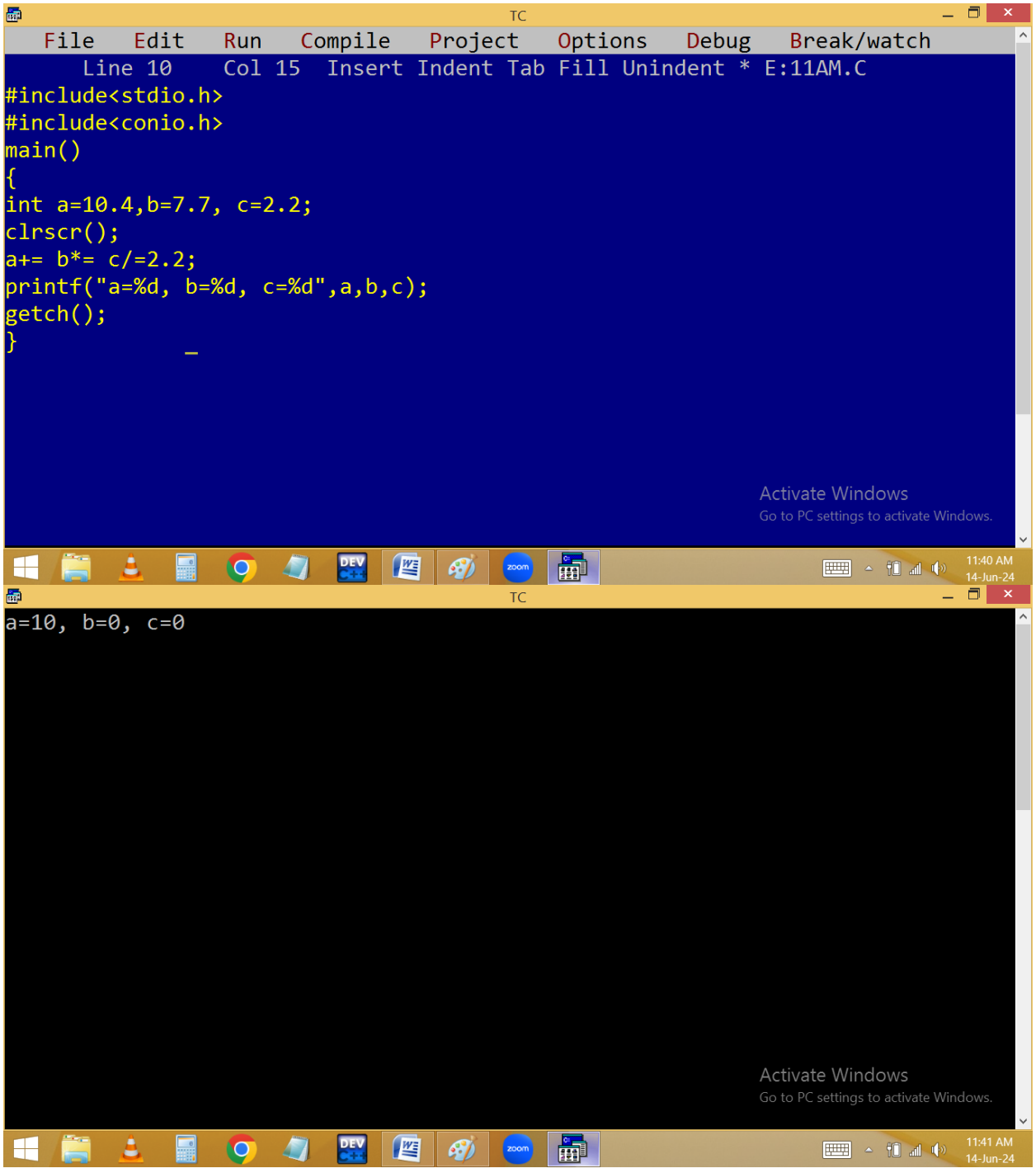
a+=4; i.e. a=a+4 ➔ 10+4 ➔ a=14

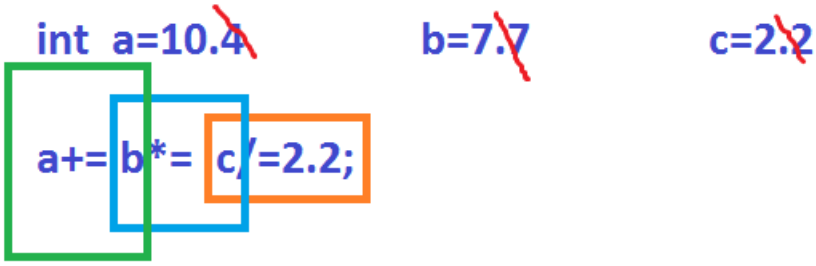
b*=3; i.e. b=b*3 ➔ 2*3 ➔ b=6

c/=2; i.e. c=c/2 ➔ 5/2 ➔ c=2.500000


TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 34 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=10, b=2;
float c=5;
clrscr();
a+=4;
b*=3;
c/=2;
printf("a=%d, b=%d, c=%f",a,b,c);_
getch();
}
Activate Windows
Go to PC settings to activate Windows.
11:34 AM
14-Jun-24
TC
a=14, b=6, c=2.500000_
Activate Windows
Go to PC settings to activate Windows.
11:34 AM
14-Jun-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 56 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=10,b=7;
clrscr();
a+=b*5; /* a=a+ (b*5) ==> 10+(7*5) ==> 10+35 = 45 */_
printf("a=%d, b=%d",a,b);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
11:37 AM
14-Jun-24
TC
a=45, b=7
Activate Windows
Go to PC settings to activate Windows.
11:36 AM
14-Jun-24

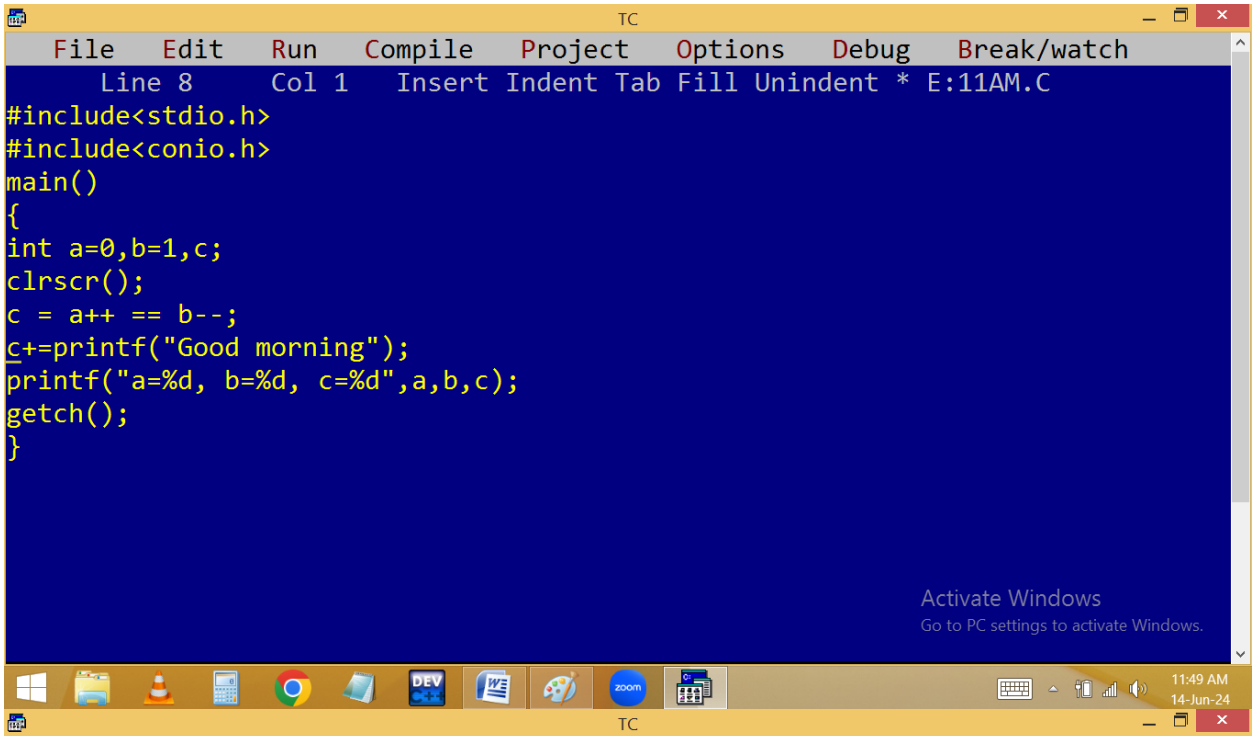

TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 15 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=10.4,b=7.7, c=2.2;
clrscr();
a+= b*= c/=2.2;
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
11:40 AM
14-Jun-24
TC
a=10, b=0, c=0
Activate Windows
Go to PC settings to activate Windows.
11:41 AM
14-Jun-24

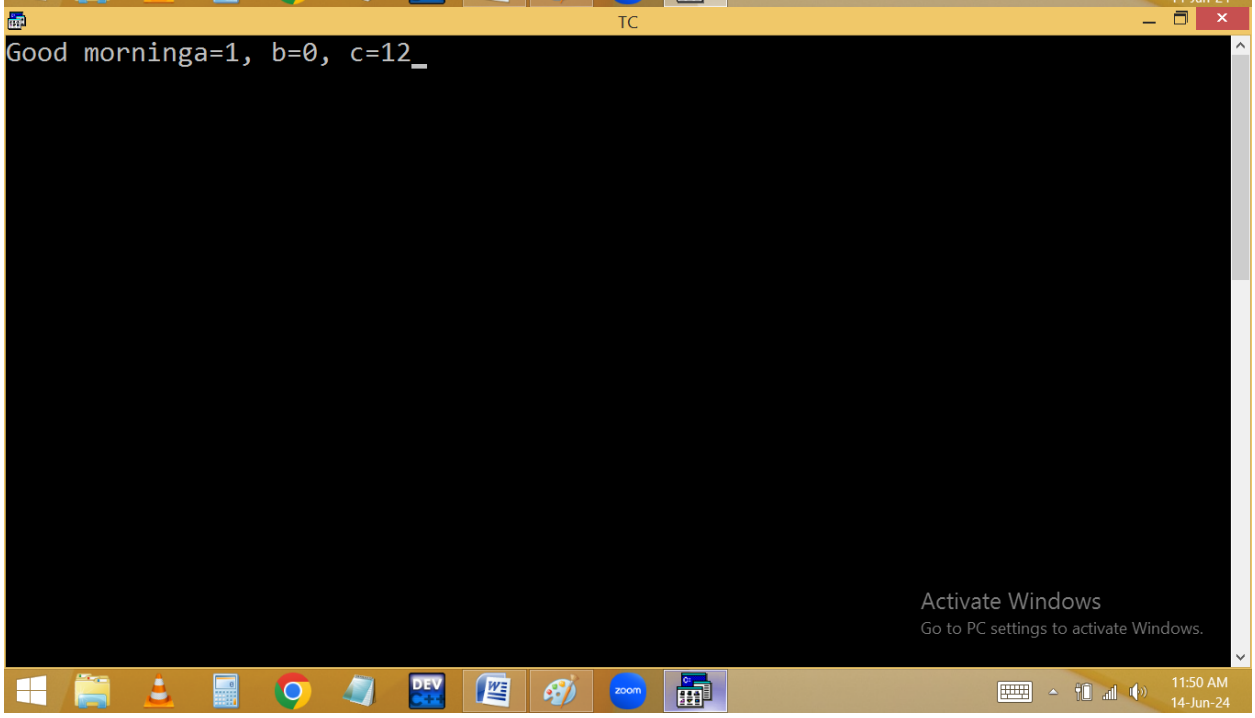


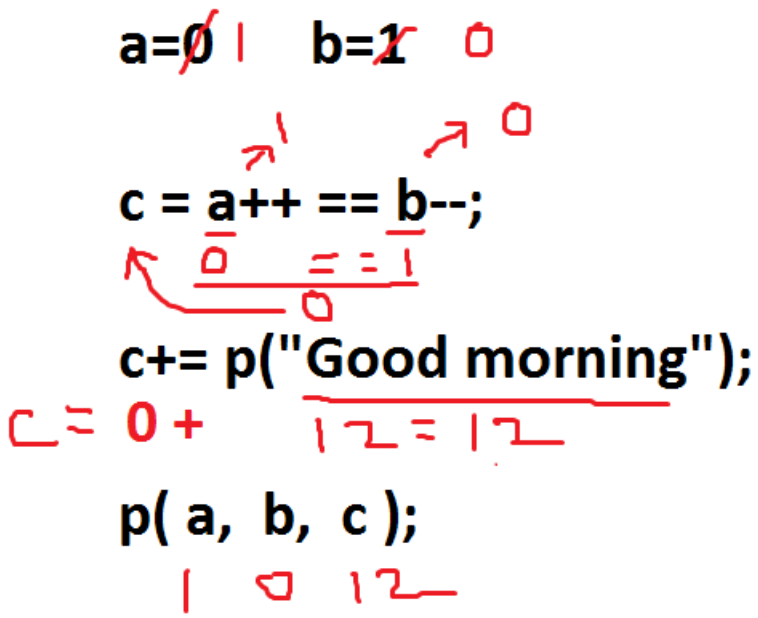
c/=2.2 ==> c=c/2==>2/2.2==> c=0

b*=c ==> b=b*c ==> 7*0 ==> b=0

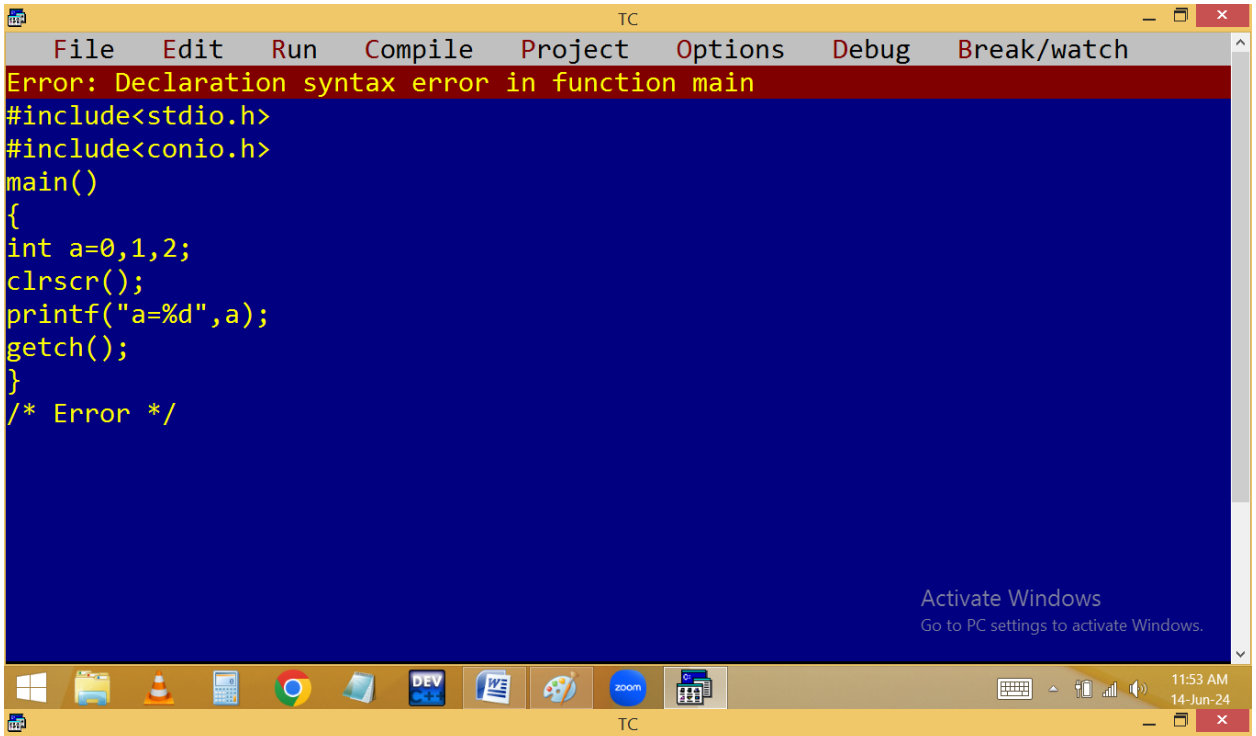
a+=b ==> a=a+b ==> 10+0 ==> a=10

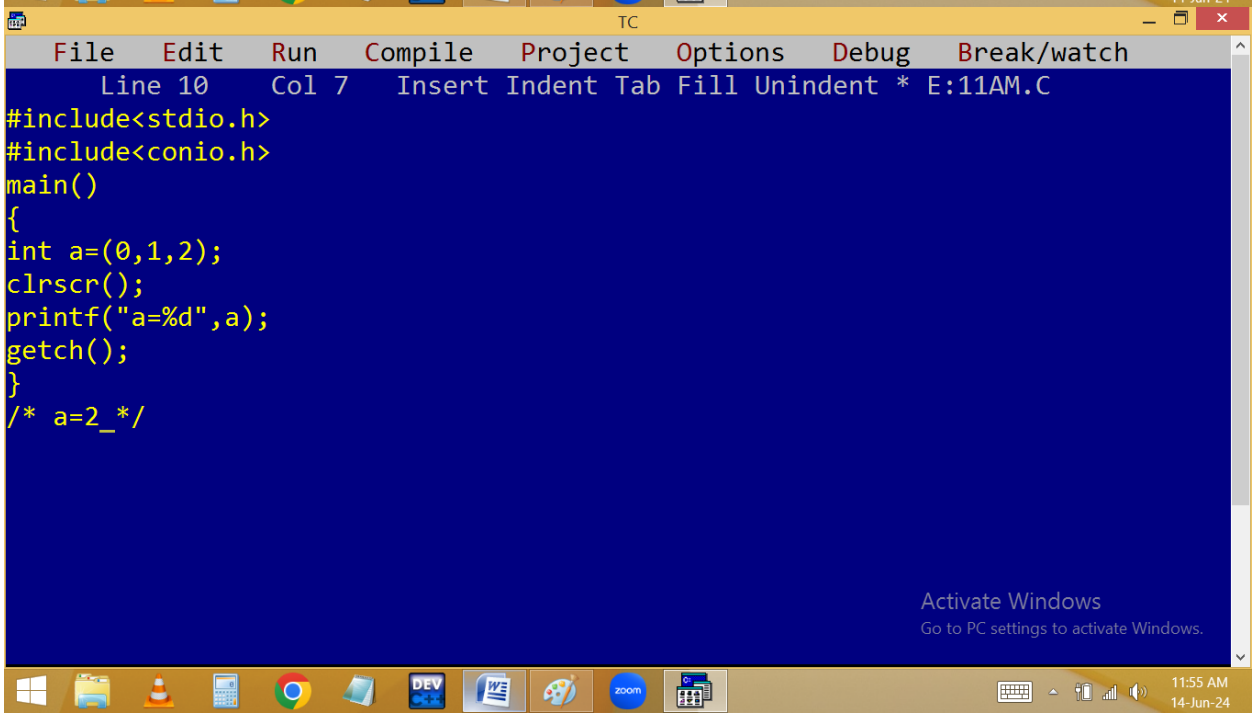

TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=0,b=1,c;
clrscr();
c = a++ == b--;
c+=printf("Good morning");
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
11:49 AM
14-Jun-24

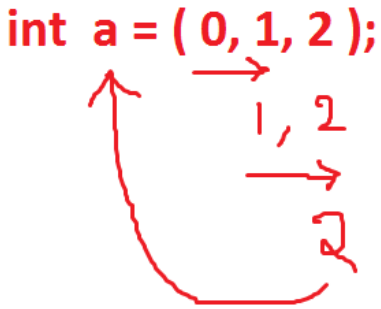

TC
Good morninga=1, b=0, c=12
Activate Windows
Go to PC settings to activate Windows.
11:50 AM
14-Jun-24

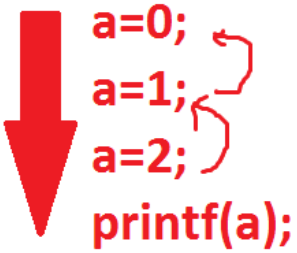


( ) and , separators:


TC
File Edit Run Compile Project Options Debug Break/watch
Error: Declaration syntax error in function main
#include<stdio.h>
#include<conio.h>
main()
{
int a=0,1,2;
clrscr();
printf("a=%d",a);
getch();
}
/* Error */
Activate Windows
Go to PC settings to activate Windows.
11:53 AM
14-Jun-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=(0,1,2);
clrscr();
printf("a=%d",a);
getch();
}
/* a=2_*/
Activate Windows
Go to PC settings to activate Windows.
11:55 AM
14-Jun-24





TC

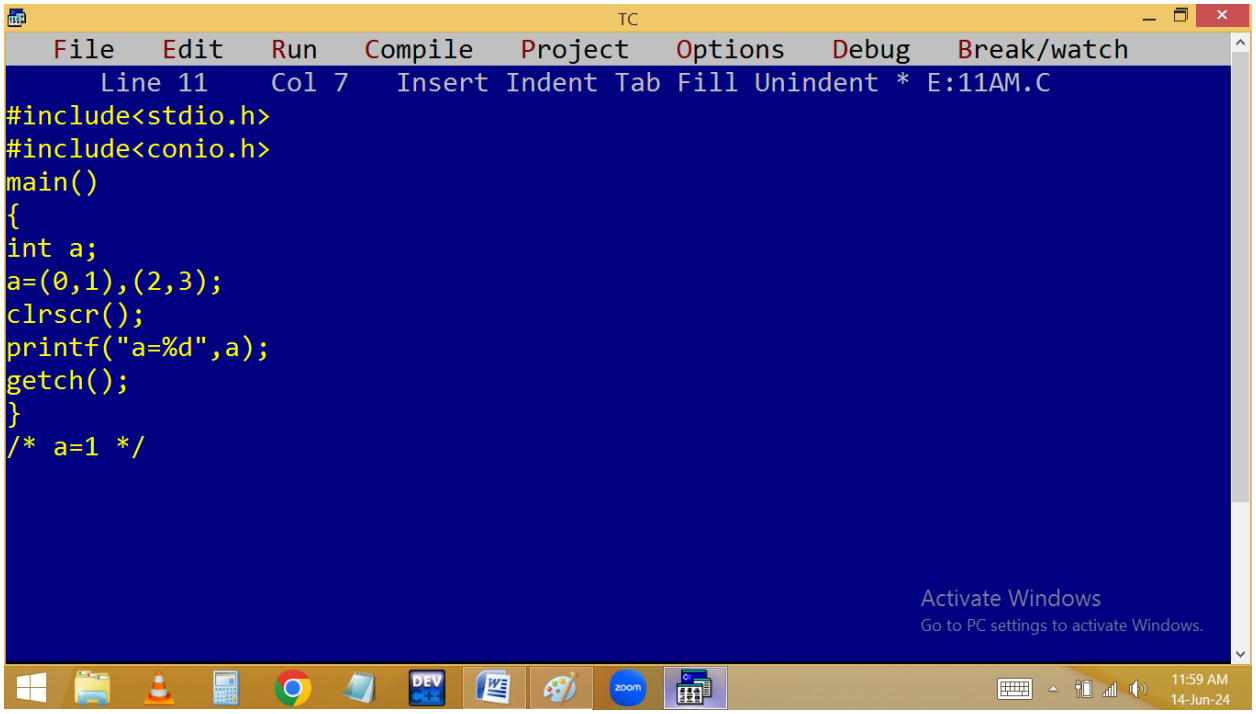
File Edit Run Compile Project Options Debug Break/watch

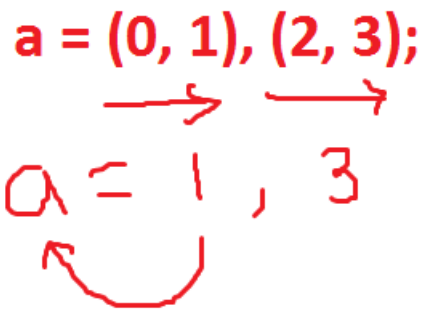
Line 11 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C

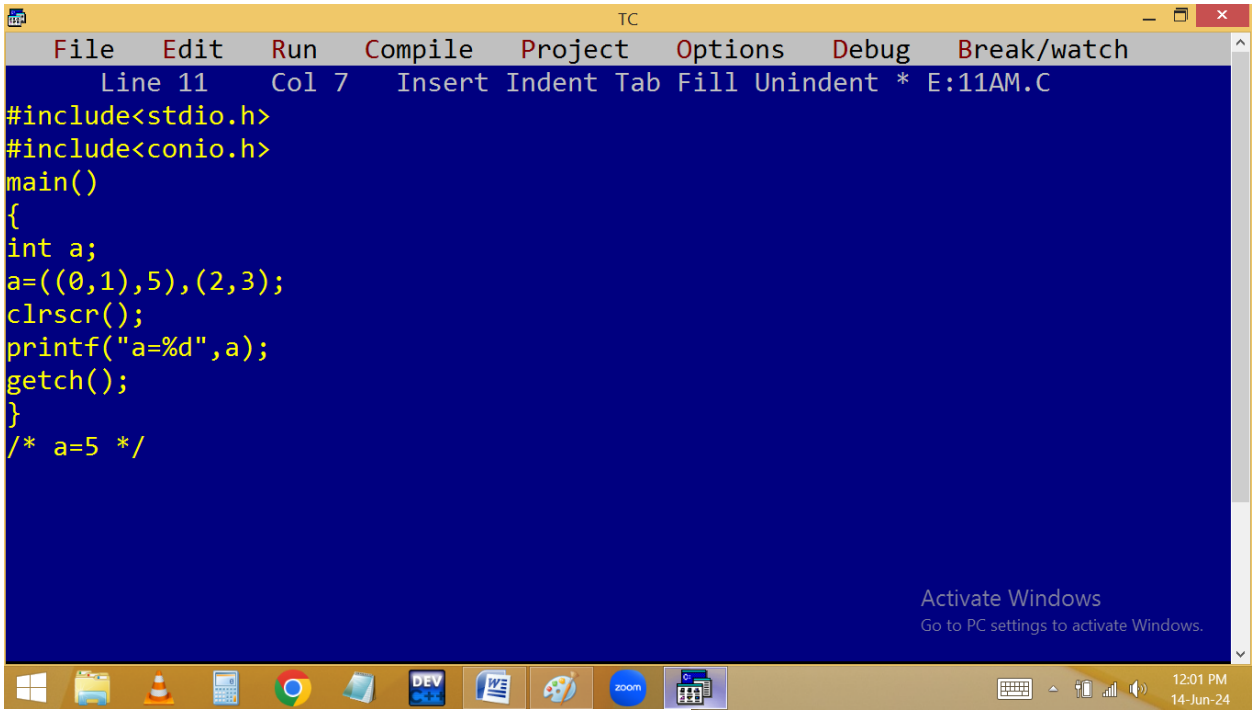
```
#include<stdio.h>
#include<conio.h>
main()
{
int a;
a=0,1,2;
clrscr();
printf("a=%d",a);
getch();
}
/* a=0 */
```

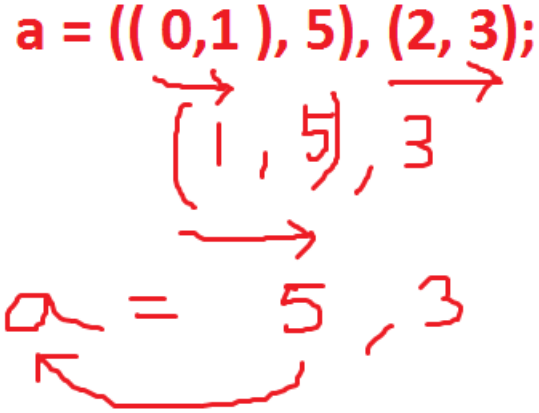
Activate Windows
Go to PC settings to activate Windows.

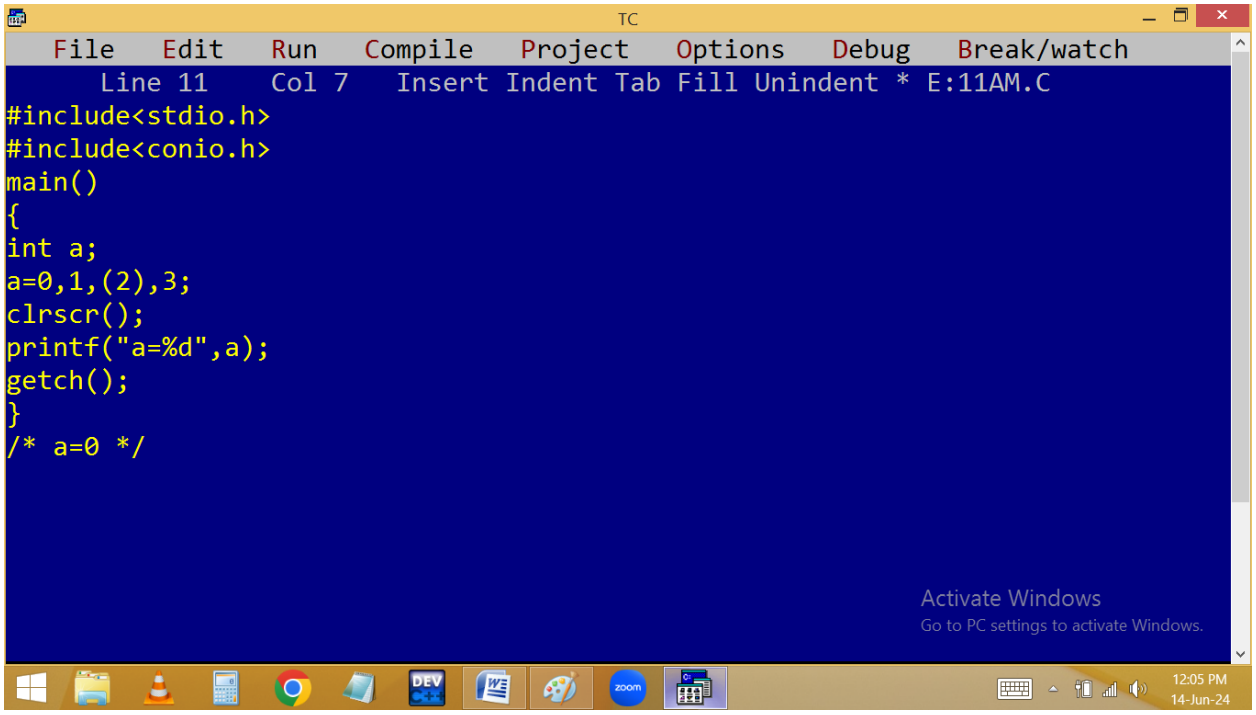
11:57 AM
14-Jun-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a;
a=(0,1),(2,3);
clrscr();
printf("a=%d",a);
getch();
}
/* a=1 */
Activate Windows
Go to PC settings to activate Windows.
11:59 AM
14-Jun-24


a = (0, 1), (2, 3);
a = 1 , 3


TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a;
a=((0,1),5),(2,3);
clrscr();
printf("a=%d",a);
getch();
}
/* a=5 */
Activate Windows
Go to PC settings to activate Windows.
12:01 PM
14-Jun-24

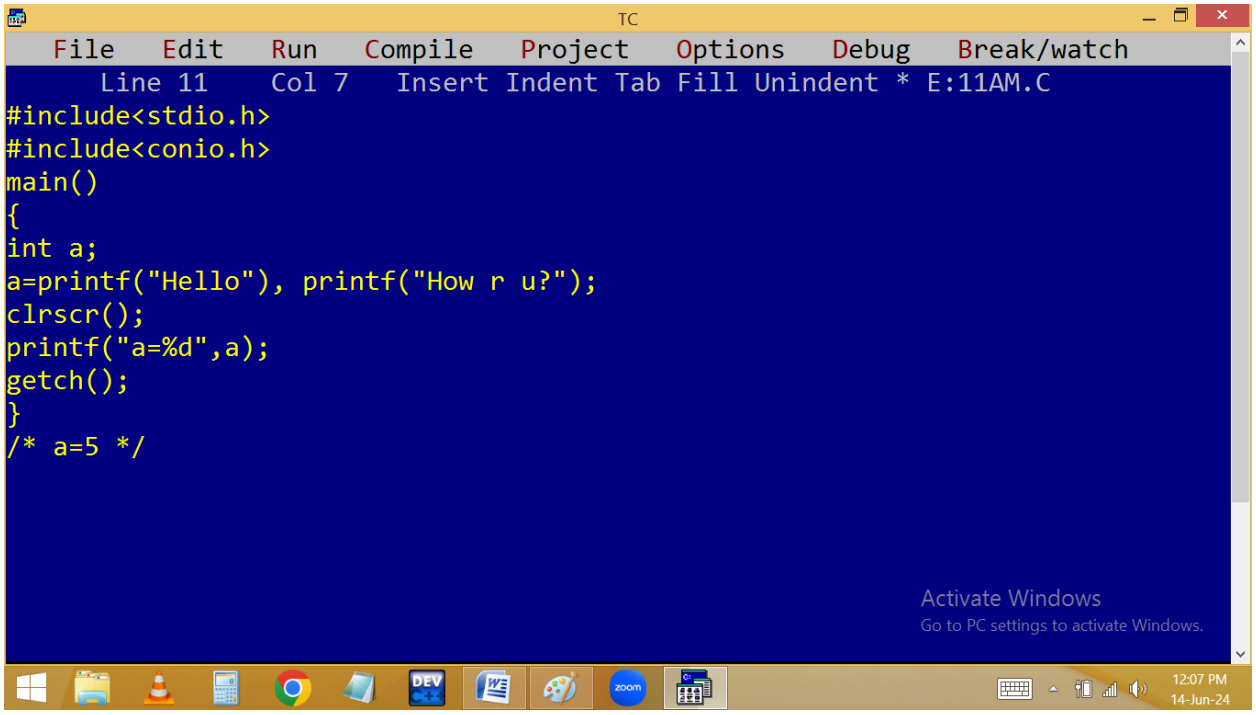

a = ((0,1), 5), (2, 3);
1 , 5 , 3
a = 5 , 3

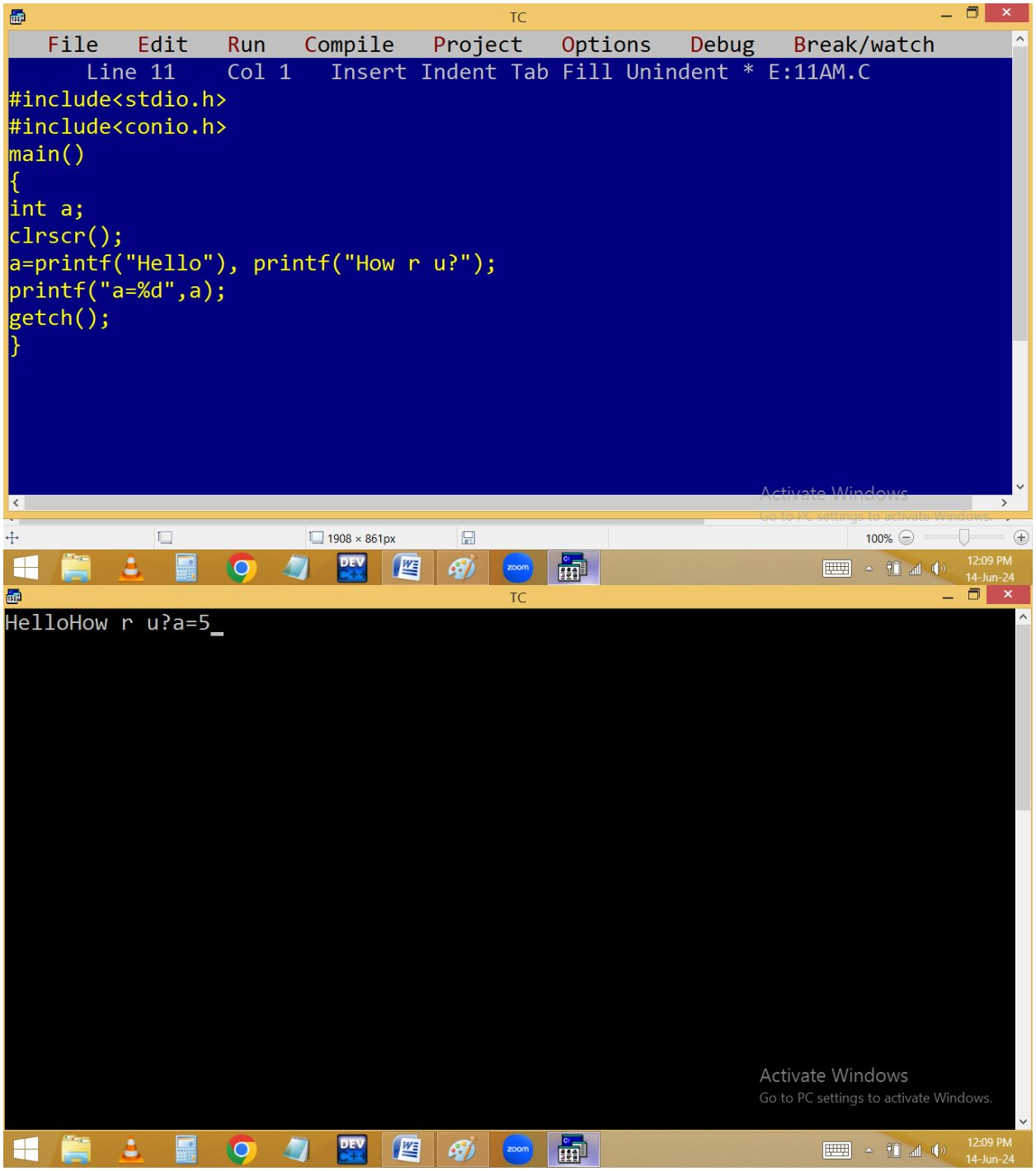

TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a;
a=0,1,(2),3;
clrscr();
printf("a=%d",a);
getch();
}
/* a=0 */
Activate Windows
Go to PC settings to activate Windows.
12:05 PM
14-Jun-24

a = 0, 1 , (2), 3;

↓

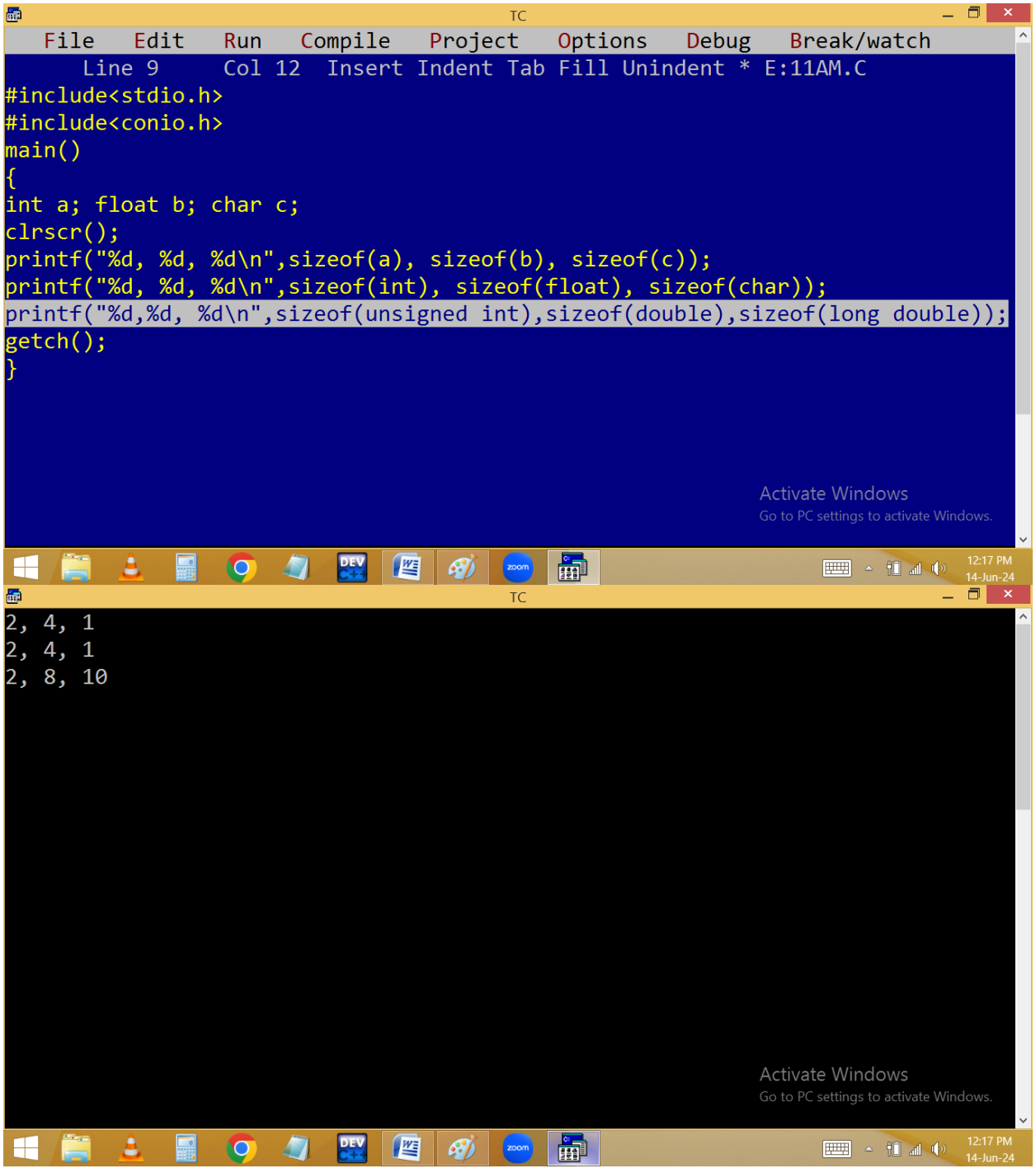
a = 0, 1, 2, 3;

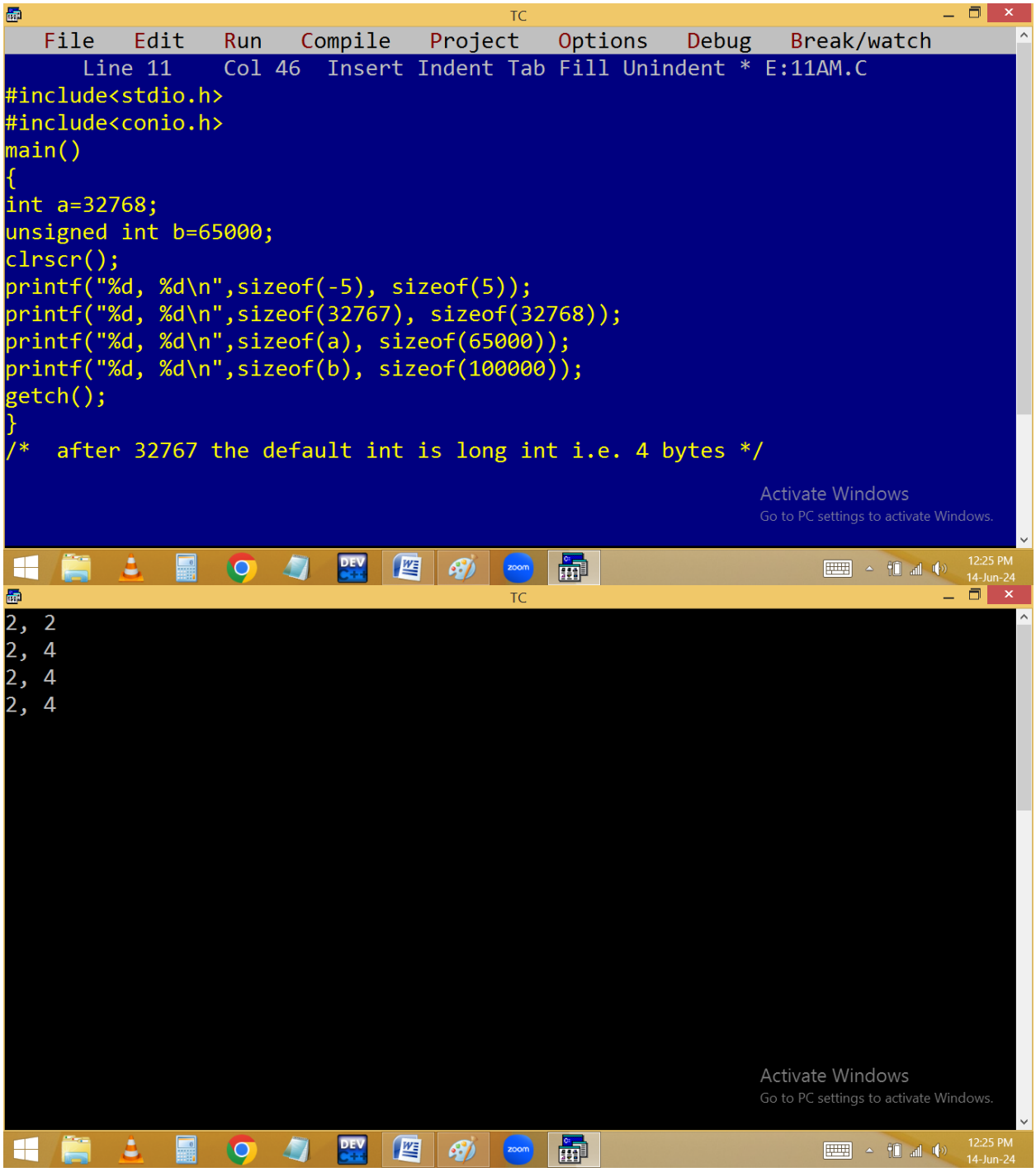

TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a;
a=printf("Hello"), printf("How r u?");
clrscr();
printf("a=%d",a);
getch();
}
/* a=5 */
Activate Windows
Go to PC settings to activate Windows.
12:07 PM
14-Jun-24

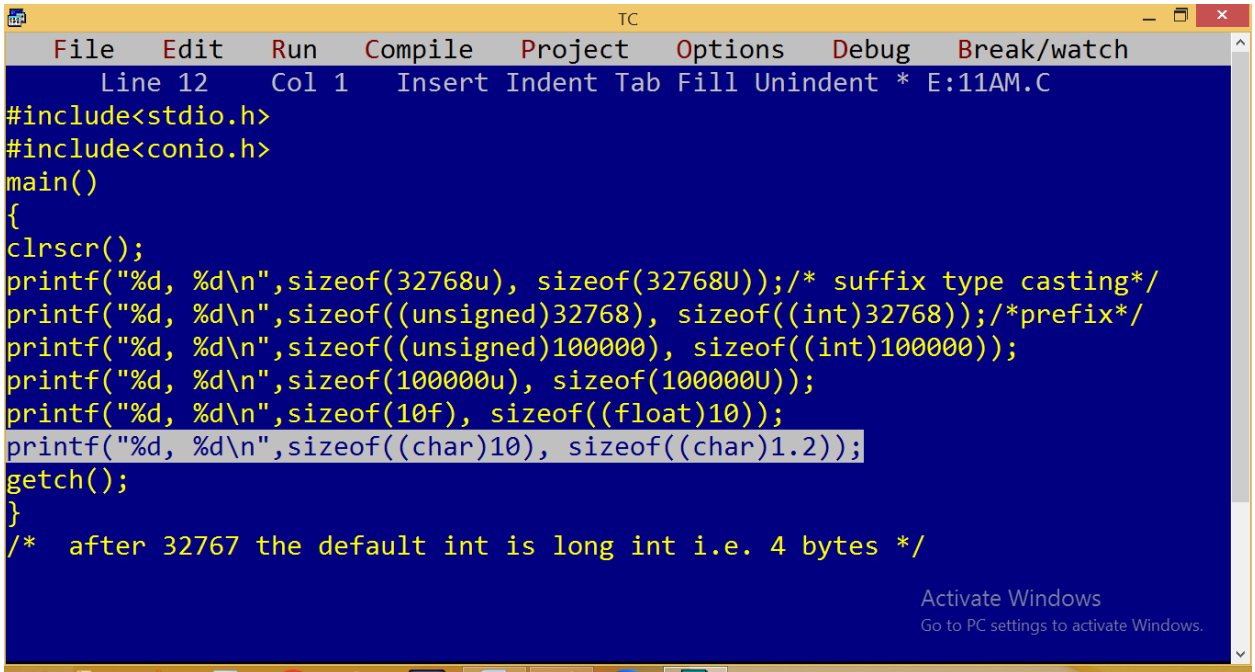

TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a;
clrscr();
a=printf("Hello"), printf("How r u?");
printf("a=%d",a);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
1908 × 861px
100%
12:09 PM
14-Jun-24
TC
HelloHow r u?a=5
Activate Windows
Go to PC settings to activate Windows.
12:09 PM
14-Jun-24

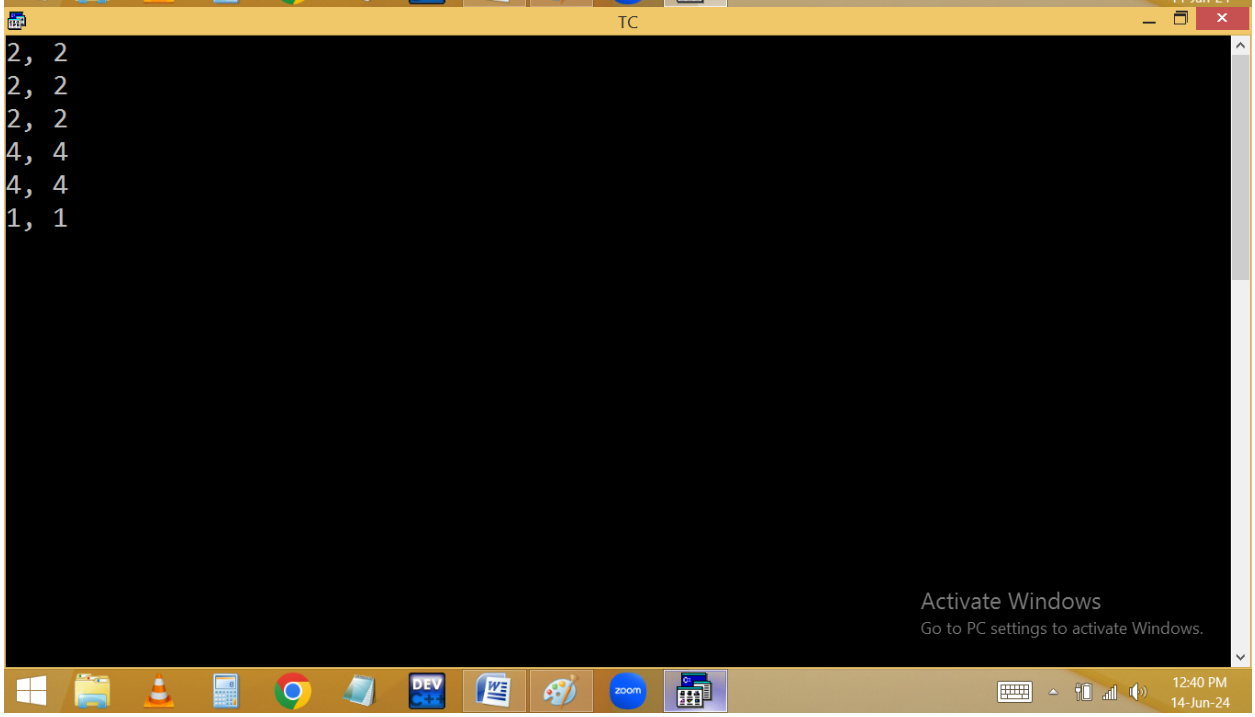
a = 5, 8;

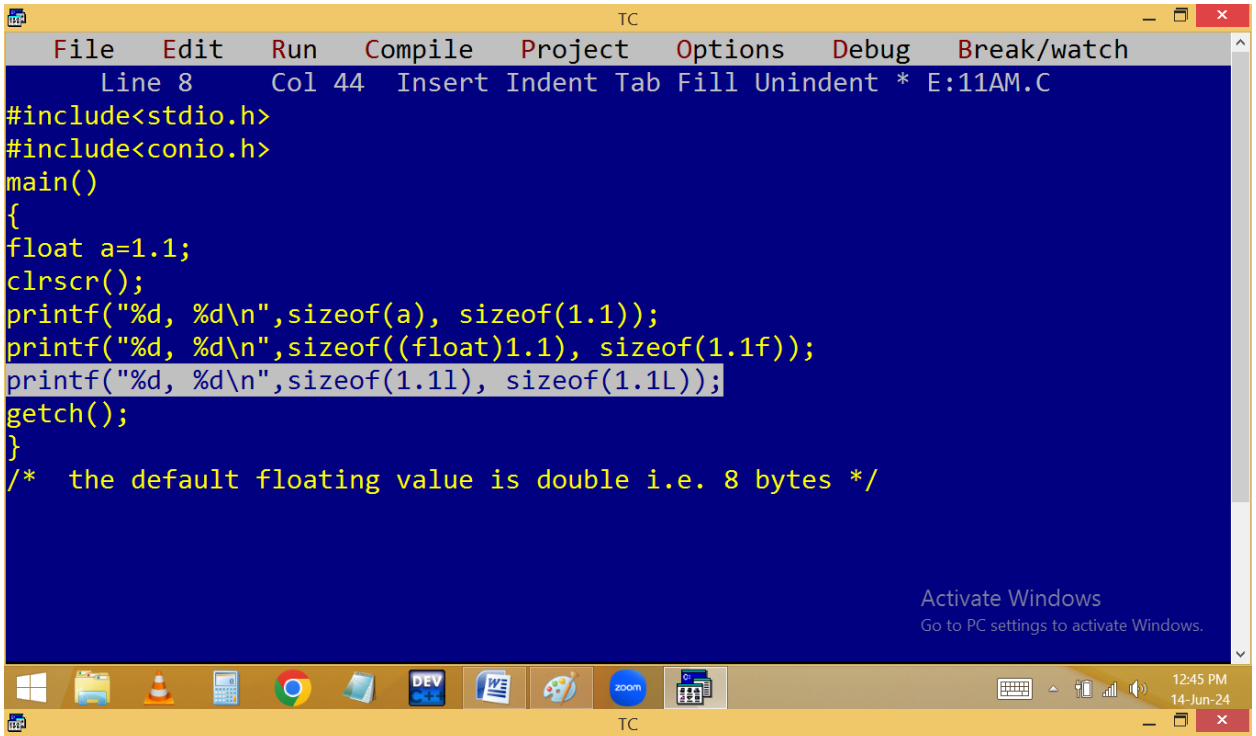
sizeof( ) operator: It returns the no of bytes taken by a variable / data type / value.

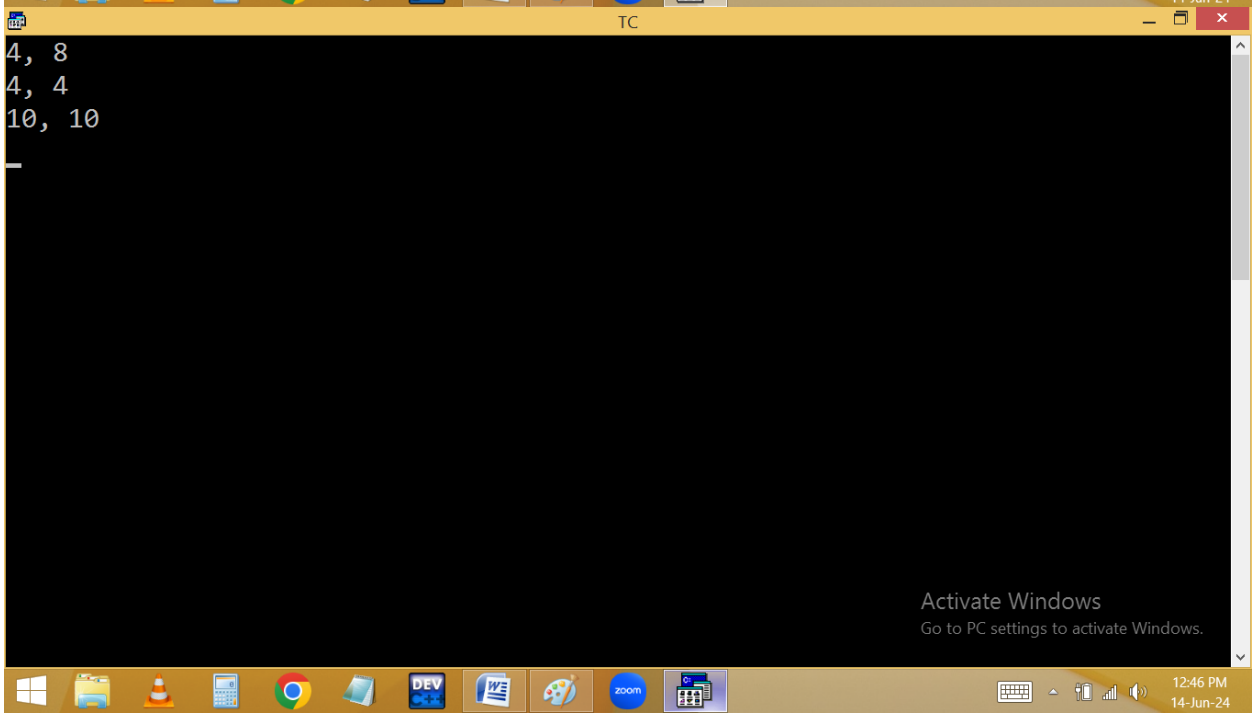



TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 46 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
int a=32768;
unsigned int b=65000;
clrscr();
printf("%d, %d\n",sizeof(-5), sizeof(5));
printf("%d, %d\n",sizeof(32767), sizeof(32768));
printf("%d, %d\n",sizeof(a), sizeof(65000));
printf("%d, %d\n",sizeof(b), sizeof(100000));
getch();
}
/* after 32767 the default int is long int i.e. 4 bytes */
Activate Windows
Go to PC settings to activate Windows.
12:25 PM
14-Jun-24
TC
2, 2
2, 4
2, 4
2, 4
Activate Windows
Go to PC settings to activate Windows.
12:25 PM
14-Jun-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
clrscr();
printf("%d, %d\n",sizeof(32768u), sizeof(32768U));/* suffix type casting*/
printf("%d, %d\n",sizeof((unsigned)32768), sizeof((int)32768));/*prefix*/
printf("%d, %d\n",sizeof((unsigned)100000), sizeof((int)100000));
printf("%d, %d\n",sizeof(100000u), sizeof(100000U));
printf("%d, %d\n",sizeof(10f), sizeof((float)10));
printf("%d, %d\n",sizeof((char)10), sizeof((char)1.2));
getch();
}
/* after 32767 the default int is long int i.e. 4 bytes */
Activate Windows
Go to PC settings to activate Windows.
12:39 PM
14-Jun-24


TC
2, 2
2, 2
2, 2
4, 4
4, 4
1, 1
Activate Windows
Go to PC settings to activate Windows.
12:40 PM
14-Jun-24


TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 44 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
main()
{
float a=1.1;
clrscr();
printf("%d, %d\n",sizeof(a), sizeof(1.1));
printf("%d, %d\n",sizeof((float)1.1), sizeof(1.1f));
printf("%d, %d\n",sizeof(1.1l), sizeof(1.1L));
getch();
}
/* the default floating value is double i.e. 8 bytes */
Activate Windows
Go to PC settings to activate Windows.
12:45 PM
14-Jun-24


TC
4, 8
4, 4
10, 10
Activate Windows
Go to PC settings to activate Windows.
12:46 PM
14-Jun-24