

TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 11 Col 6 Insert Indent Tab Fill Unindent * E:9AM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a; /* declaration */
a = 10,(5),8; /* initialization */
clrscr();
printf("a=%d",a);
getch();
}
/* a=10 */
```

Activate Windows
Go to PC settings to activate Windows.

9:22 AM
15-Sep-23

TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 6 Col 13 Insert Indent Tab Fill Unindent * E:9AM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a; /* declaration */
a = 10,(5,8); /* initialization */
clrscr();
printf("a=%d",a);
getch();
}
/* a=10 */
```

Activate Windows
Go to PC settings to activate Windows.

9:23 AM
15-Sep-23

a = 10, (5, 8);

Handwritten diagram showing the assignment: **a = 10, 8**. An arrow points from the **(5, 8)** in the original code to the **8** in the handwritten code. Another arrow points from the **10** in the original code to the **10** in the handwritten code.

```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 11 Col 7 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a; /* declaration */
a = (10,5),8,(20,30); /* initialization */
clrscr();
printf("a=%d",a);
getch();
}
/* a=5 */
```

Activate Windows
Go to PC settings to activate Windows.

9:24 AM
15-Sep-23

a = (10, 5), 8 , (30, 40);

Handwritten diagram showing the assignment: **a = 5, 8, 40**. Arrows point from the **(10, 5)** and **(30, 40)** in the original code to the **5** and **40** in the handwritten code, respectively. Another arrow points from the **8** in the original code to the **8** in the handwritten code.

The screenshot displays the Turbo C++ (TC) IDE interface. The top window, titled 'Edit', shows a C program with the following code:

```
Line 6 Col 10 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a; /* declaration */
clrscr();_
a = printf("Hi"), printf("Hello"), printf("Bye"); /* initialization */
printf("a=%d",a);
getch();
}
```

The bottom window shows the output of the program: "HiHelloByea=2". The Windows taskbar at the bottom indicates the time is 9:27 AM on 15-Sep-23. An "Activate Windows" watermark is visible in the bottom right corner of both windows.

Address operators:

1. **&** - Address of same variable
2. ***** - Address of another variable - pointer

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

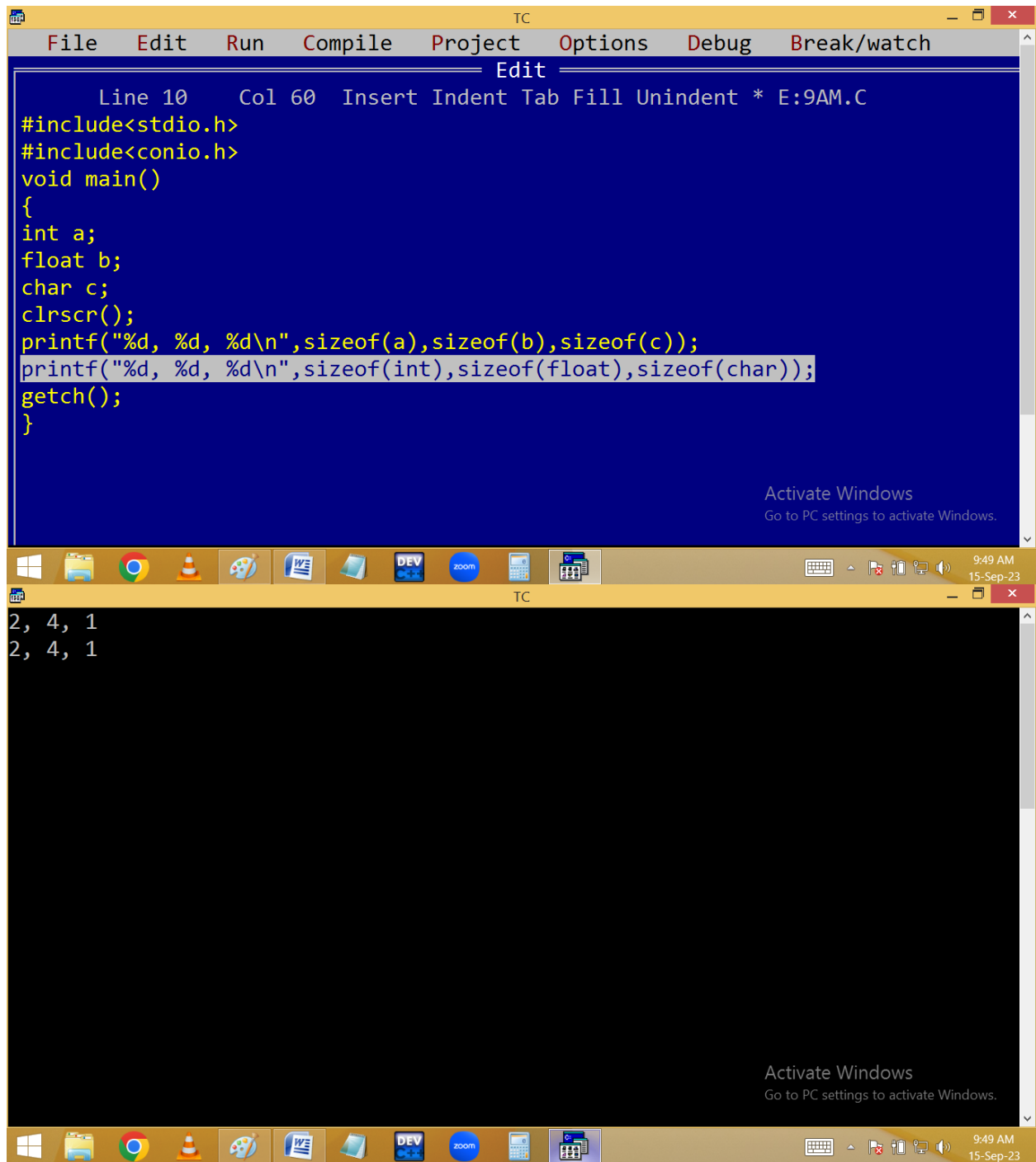
```
Line 12 Col 24 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a; /* declaration */
int *p; /* pointer declaration */
clrscr();
p = &a;
a = 100; /* initialization */
printf("a value=%d\n",a);
printf("a addr =%u\n",&a);
printf("p value=%u",p);_
getch();
}
```

The bottom window, titled 'TC', shows the output of the program:

```
a value=100
a addr =65502
p value=65502
```

Both windows include a taskbar at the bottom with various application icons and a system tray showing the time as 9:36 AM on 15-Sep-23. An 'Activate Windows' watermark is visible in the bottom right corner of both windows.

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



TC

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Edit

Line 12 Col 69 Insert Indent Tab Fill Unindent * E:9AM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=32768, b=50000, c=500000;
clrscr();
printf("%d, %d, %d\n",sizeof(-5),sizeof(5),sizeof(32767));
printf("%d, %d, %d\n",sizeof(32768),sizeof(50000),sizeof(500000));
printf("%d, %d, %d\n",sizeof(a),sizeof(b),sizeof(c));
printf("%d, %d, %d\n",sizeof(50000u),sizeof(50000U),sizeof((unsigned)50000));
printf("%d\n",sizeof(500000u)); /* suffix type casting */
printf("%d\n",sizeof((unsigned)50000)); /* prefix type casting */
getch();
}
/* After 32767 every int is long int */
```

Activate Windows
Go to PC settings to activate Windows.

10:07 AM
15-Sep-23

TC

```
2, 2, 2
4, 4, 4
2, 2, 2
2, 2, 2
4
2
```

Activate Windows
Go to PC settings to activate Windows.

10:07 AM
15-Sep-23

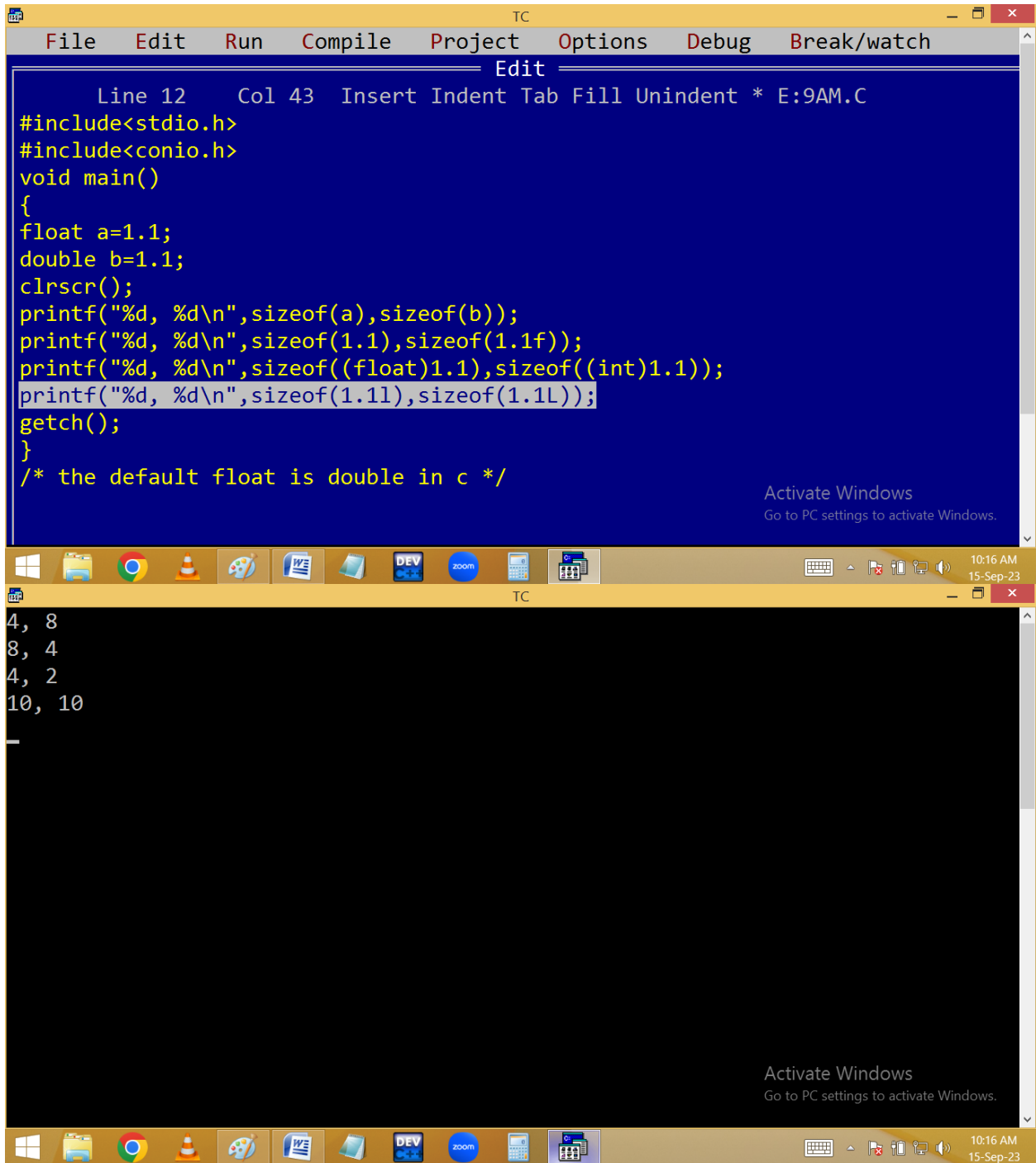
The image shows a screenshot of the Turbo C++ (TC) IDE. The top window, titled 'TC', is in 'Edit' mode and displays a C program. The code is as follows:

```
Line 8   Col 1   Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d, %d, %d\n",sizeof(5l),sizeof(5L),sizeof((long)5));
printf("%d, %d",sizeof((float)5),sizeof((char)5));
getch();
}
```

The bottom window, also titled 'TC', shows the output of the program:

```
4, 4, 4
4, 1_
```

Both windows have a taskbar at the bottom with various application icons and a system tray showing the time as 10:10 AM on 15-Sep-23. An 'Activate Windows' watermark is visible in the bottom right of both windows.



The image shows a screenshot of the Turbo C++ (TC) IDE. The top window, titled 'Edit', contains a C program. The code is as follows:

```
Line 12   Col 43   Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
float a=1.1;
double b=1.1;
clrscr();
printf("%d, %d\n",sizeof(a),sizeof(b));
printf("%d, %d\n",sizeof(1.1),sizeof(1.1f));
printf("%d, %d\n",sizeof((float)1.1),sizeof((int)1.1));
printf("%d, %d\n",sizeof(1.1l),sizeof(1.1L));
getch();
}
/* the default float is double in c */
```

The bottom window, titled 'TC', displays the output of the program:

```
4, 8
8, 4
4, 2
10, 10
```

Both windows feature a taskbar at the bottom with various application icons and a system tray on the right showing the time as 10:16 AM on 15-Sep-23. An 'Activate Windows' watermark is visible in the bottom right corner of both windows.

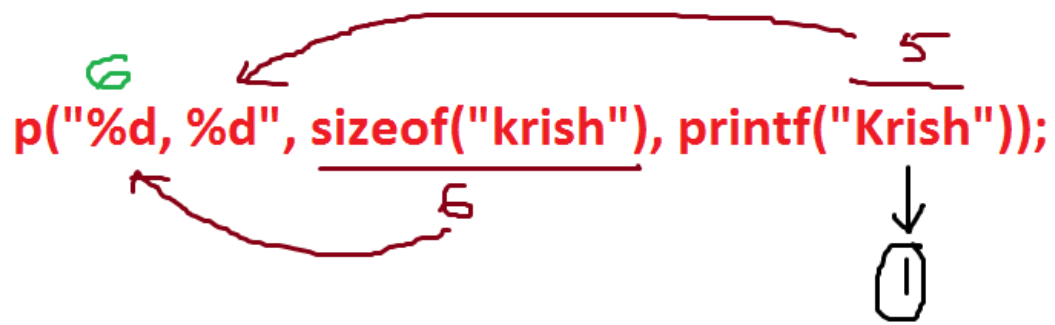
The image shows a screenshot of the Turbo C++ (TC) IDE. The top window, titled 'Edit', contains the following C code:

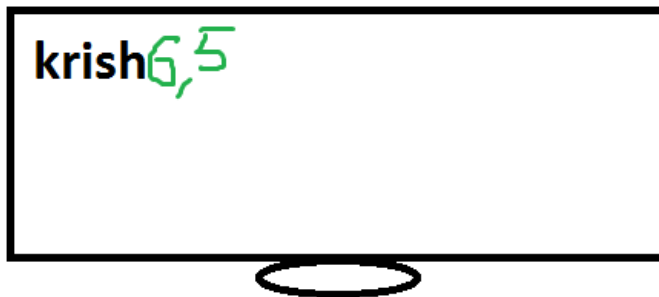
```
Line 10 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
char a='X',b[]="X", c[10]="Krish", d[]="Krish";
clrscr();
printf("%d, %d\n",sizeof(a),sizeof(b));
printf("%d, %d\n",sizeof(c),sizeof(d));
printf("%d, %d\n",sizeof("Krish"),printf("Krish"));
getch();
}
```

The bottom window, titled 'TC', displays the output of the program:

```
1, 2
10, 6
Krish6, 5
```

The Windows taskbar at the bottom shows the time as 10:25 AM on 15-Sep-23. An 'Activate Windows' watermark is visible in the bottom right corner of both windows.

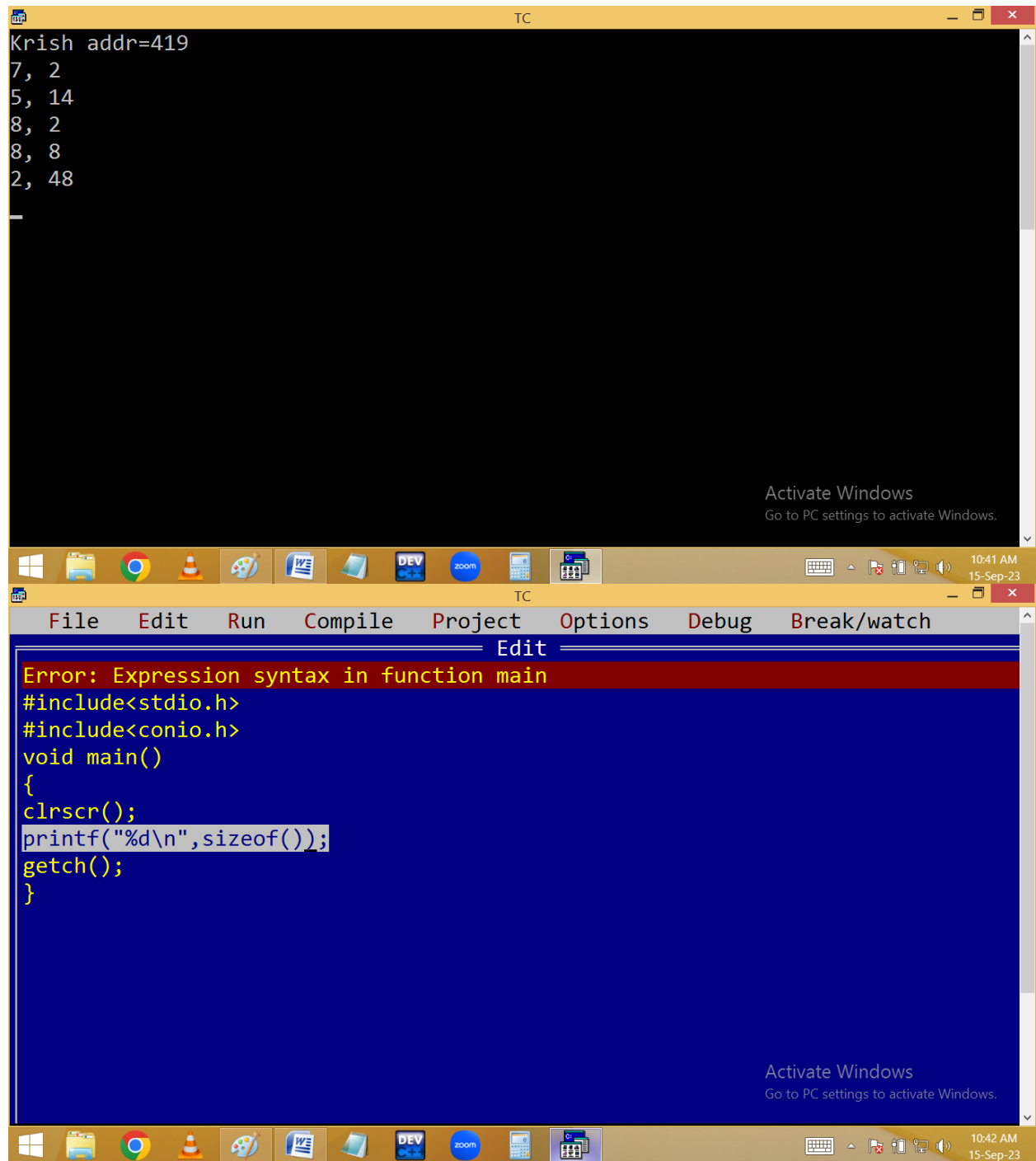

`p("%d, %d", sizeof("krish"), printf("Krish"));`

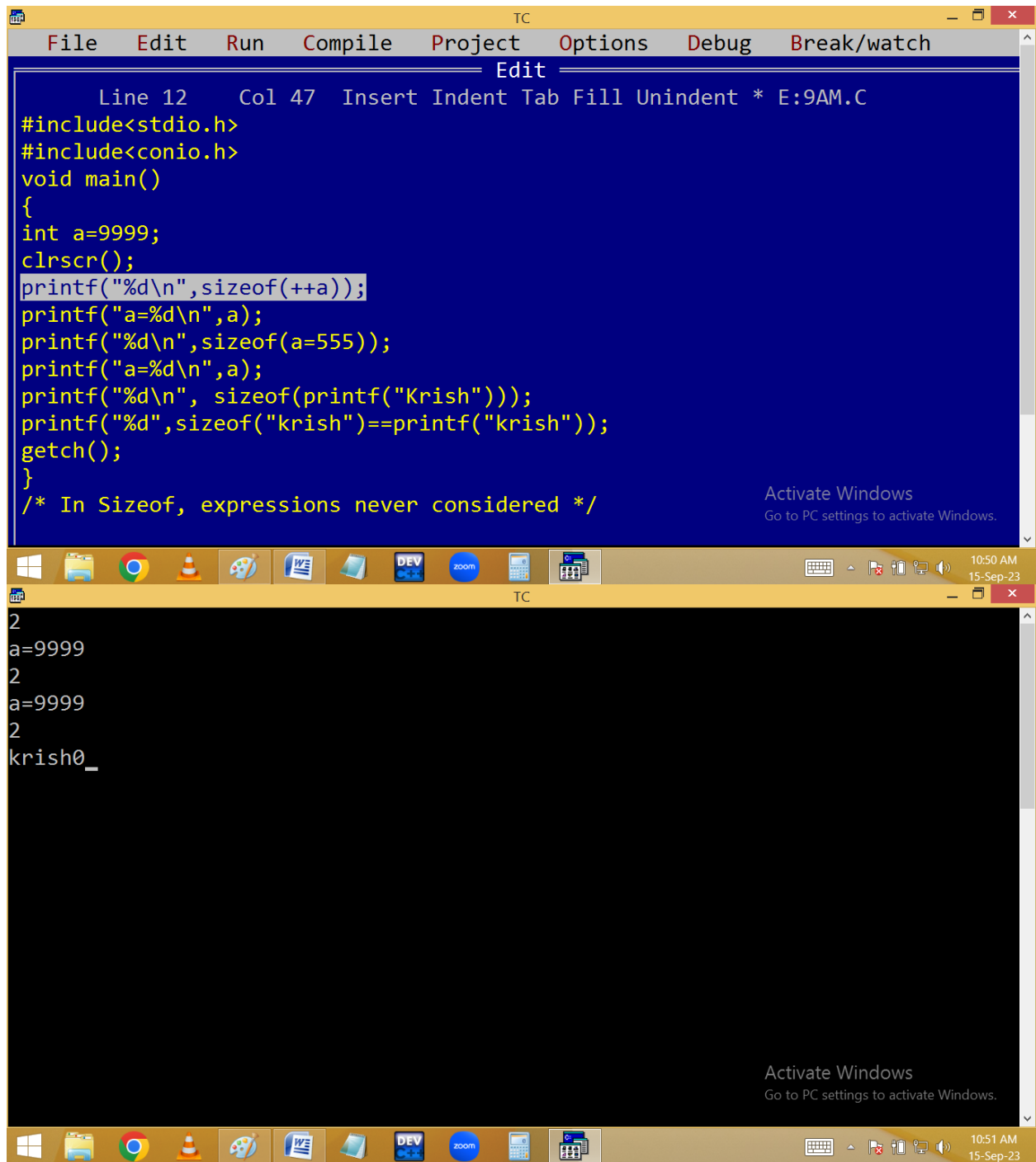

krish6,5

```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 11 Col 43 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Krish addr=%u\n","Krish");
printf("%d, %d\n",sizeof("Krish")+1,sizeof("Krish")+1));
printf("%d, %d\n",sizeof("1.23"),sizeof("Kishore naidu"));
printf("%d, %d\n",sizeof(123,1.23),sizeof(1.23,123));
printf("%d, %d\n",sizeof(123+1.23),sizeof(1.23+123));
printf("%d, %d\n",sizeof(sizeof("sizeof")),sizeof(1.2)*sizeof("Krish"));
getch();
}
```

Activate Windows
Go to PC settings to activate Windows.

10:41 AM
15-Sep-23





The image shows a screenshot of the Turbo C++ (TC) IDE. The top window is the 'Edit' window, displaying a C program. The code is as follows:

```
Line 12 Col 47 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=9999;
clrscr();
printf("%d\n",sizeof(++a));
printf("a=%d\n",a);
printf("%d\n",sizeof(a=555));
printf("a=%d\n",a);
printf("%d\n", sizeof(printf("Krish")));
printf("%d",sizeof("krish")==printf("krish"));
getch();
}
/* In Sizeof, expressions never considered */
```

The bottom window is the 'Output' window, showing the execution results:

```
2
a=9999
2
a=9999
2
krish0_
```

The taskbar at the bottom shows various application icons, including Windows Explorer, Google Chrome, VLC, Paint, Word, and several development tools like DEV and zoom. The system clock indicates the time is 10:50 AM on 15-Sep-23. An 'Activate Windows' watermark is visible in the bottom right corner of the output window.

