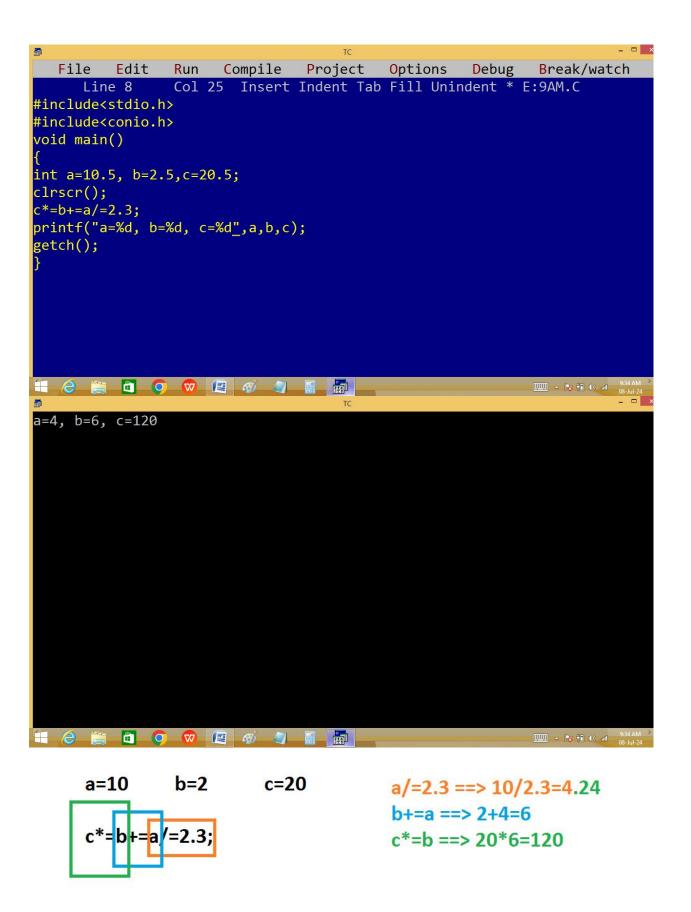
Compound assignment / short hand operators:

$$a+=5$$
; i.e. $a=a+5 \rightarrow a=10+5=15$

$$b^*=4$$
; i.e. $b=b^*4 \rightarrow b=12^*4=48$

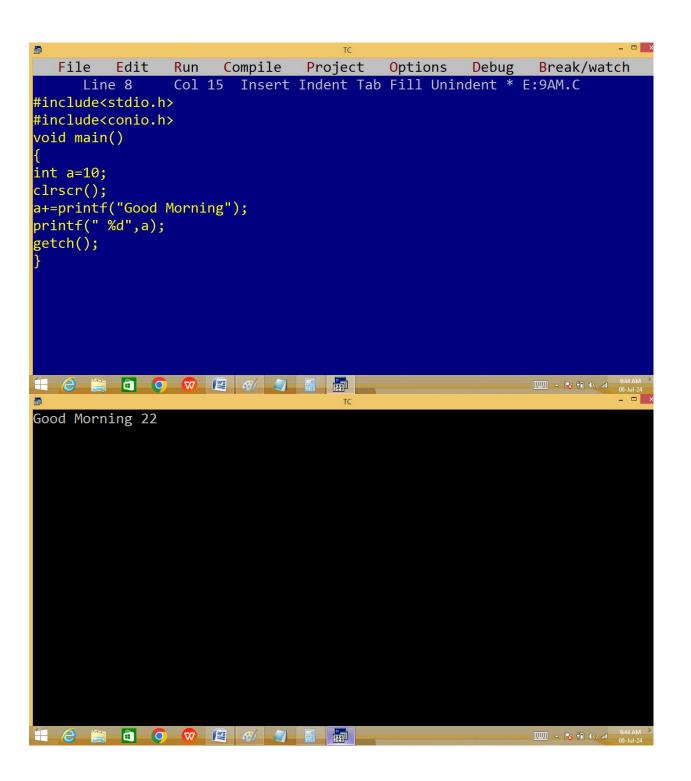
c/=2; i.e. c=c/2
$$\rightarrow$$
 c=c/2 \rightarrow 2.500000

```
_ 🗆 ×
 File Edit Run
                  Compile Project Options Debug Break/watch
     Line 11 Col 34 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
int a=10, b=12;
float c=5;
clrscr();
a+=5;
b*=4;
c/=2;
printf("a=%d, b=%d, c=%f",a,b,c);_
getch();
                                               9:31 A 08-Jul-
a=15, b=48, c=2.500000_
9:31 AM
08-Jul-24
```

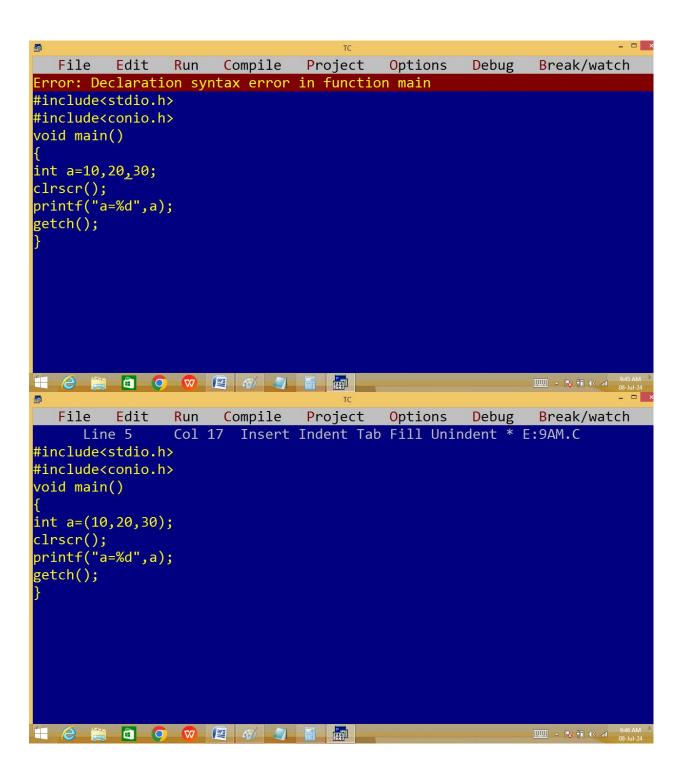


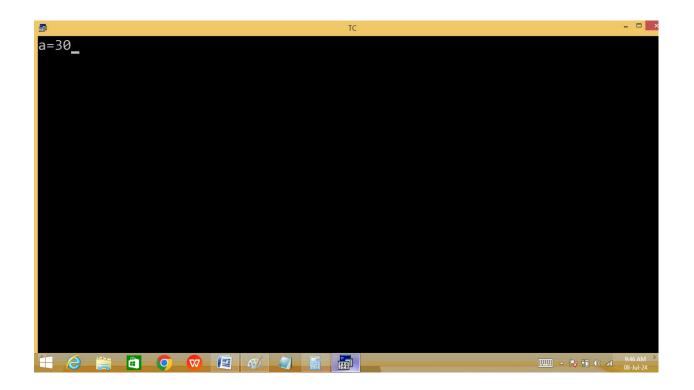
```
_ 🗆 ×
 File Edit Run Compile Project Options Debug Break/watch
           Col 18 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
int a=10, b=2,c=4;
clrscr();
c+=a*b;
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
a=10, b=2, c=24
9:40 AM
08-Jul-24
```

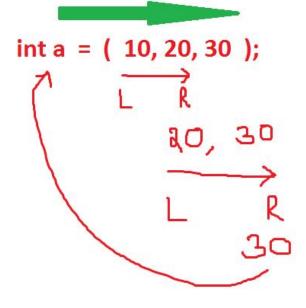
$$c+= a*b ==> c = c + a*b ==> 4 + 10*2 ==> 4+20=24$$

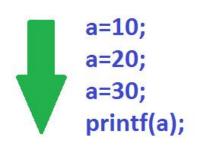


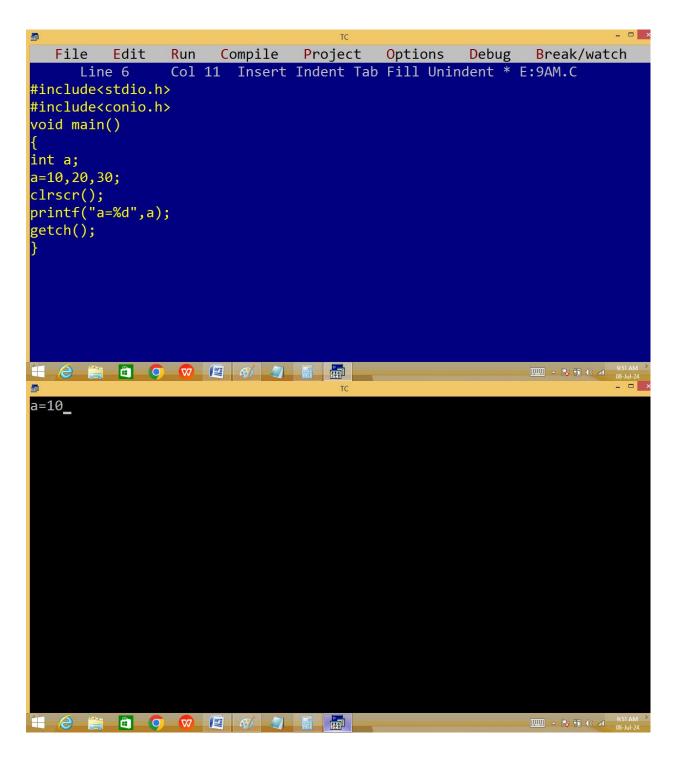
() and , separators:











Note: = have more priority than , operator.

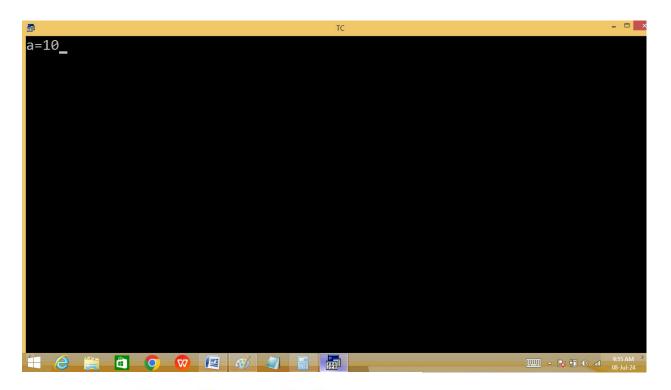


```
_ 🗆 ×
 File Edit Run Compile Project Options Debug Break/watch
             Col 10 Insert Indent Tab Fill Unindent * E:9AM.C
    Line 6
#include<stdio.h>
#include<conio.h>
void main()
int a;
a=10,(20),30;
clrscr();
printf("a=%d",a);
getch();
a=10
9:53 AM → 9:53 AM → 08-Jul-24
```

```
File Edit Run Compile Project Options Debug Break/watch

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

#include<stdio.h>
#include<conio.h>
void main()
{
int a;
a=10,(20,30);
clrscr();
printf("a=%d",a);
getch();
}
```

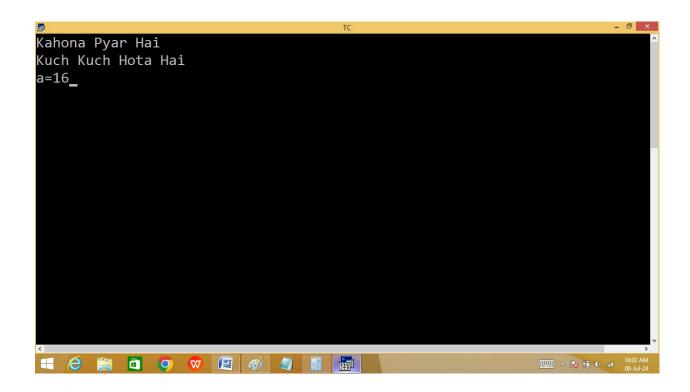


```
_ 🗆 ×
 File Edit Run
                 Compile Project Options Debug Break/watch
           Col 21 Insert Indent Tab Fill Unindent * E:9AM.C
    Line 6
#include<stdio.h>
#include<conio.h>
void main()
int a;
a=(10,20),30,(40,50);
clrscr();
printf("a=%d",a);
getch();
                                              9.57 A
08-Jul-
a=20_
9:57 AM 9:57 AM 08-Jul-24
```

$$a = (10, 20), 30, (40, 50);$$

$$A = (30, 30, (40, 50);$$

$$A = (30, 30, (40, 50);$$



```
File Edit
             Run
                  Compile Project Options Debug
                                                 Break/watch
             Col 65 Insert Indent Tab Fill Unindent * E:9AM.C
     Line 7
#include<stdio.h>
#include<conio.h>
void main()
int a;
clrscr();
a= (printf("Kahona Pyar Hai\n"),    printf("Kuch Kuch Hota Hai\n"));
printf("a=%d",a);
getch();
Kahona Pyar Hai
Kuch Kuch Hota Hai
a=19_
```

Address operators:

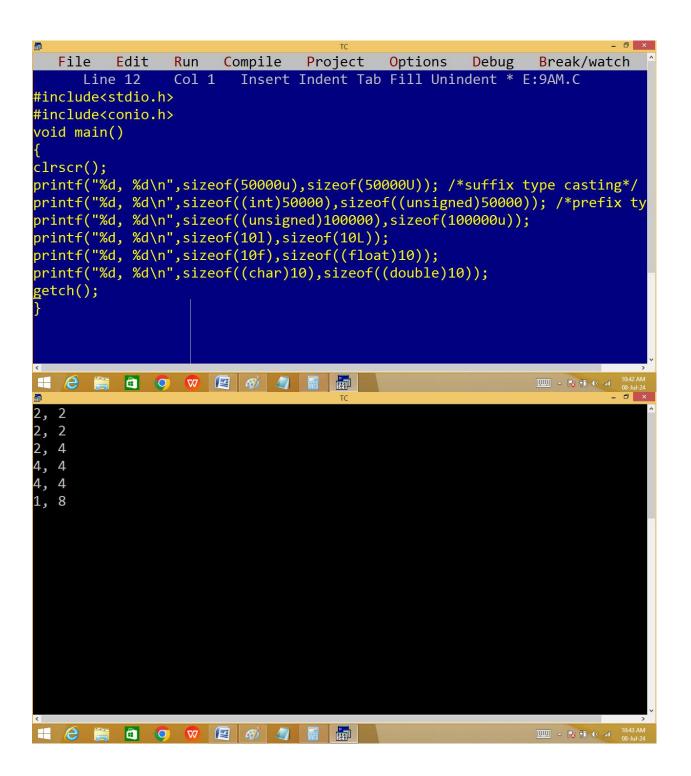
- 1.& Address of variable
- 2.* pointer address of another variable

```
Compile Project Options
        Edit
              Run
                                             Debug
                                                   Break/watch
              Col 24 Insert Indent Tab Fill Unindent * E:9AM.C
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=100; /* variable */
int * p; /* pointer variable */
clrscr();
p = &a;
printf("a value=%d\n",a);
printf("a address=%u\n",&a); /* unsigned int - always positive */
printf("p value=%u",p);
getch();
   a value=100
a address=65502
p value=65502
```

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

```
_ 🗇 🗴
  File Edit
              Run Compile Project Options Debug Break/watch
                    Insert Indent Tab Fill Unindent * E:9AM.C
     Line 10
              Col 7
#include<stdio.h>
#include<conio.h>
void main()
int a;
float b;
char c;
clrscr();
printf("%d, %d, %d\n",sizeof(a),sizeof(b),sizeof(c));
printf("%d, %d, %d\n",sizeof(int),sizeof(float),sizeof(char));
getch();
2, 4, 1
2, 4, 1
△ 🔯 🗓 (b) and 10:23 Ab
```

```
_ 0 ×
  File Edit
               Run
                    Compile Project Options Debug Break/watch
               Col 51 Insert Indent Tab Fill Unindent * E:9AM.C
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=32768;
unsigned b=50000;
int c=100000;
clrscr();
printf("%d, %d, %d\n",sizeof(-5),sizeof(5),sizeof(32767));
printf("%d, %d, %d\n",sizeof(32768),sizeof(50000),sizeof(100000));
printf("%d, %d, %d\n",sizeof(a),sizeof(b),sizeof(c));
getch();
/*Note: After 32767 every default int is long int i.e. 4 bytes */
2, 2, 2
4, 4, 4
2, 2, 2
____ △ 🔯 📆 (b) and 10:31 A
```



```
File Edit Run
                    Compile Project Options Debug Break/watch
Error: Expression syntax in function main
#include<stdio.h>
#include<conio.h>
void main()
clrscr();
printf("%d, %d\n",sizeof(10.2u),sizeof(10.2U));
getch();
File Edit Run Compile Project
                                     Options
                                              Debug
                                                     Break/watch
     Line 13 Col 5 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
float a=1.1;
clrscr();
printf("%d, %d\n",sizeof(a),sizeof(1.1));
printf("%d, %d\n",sizeof(1.1f),sizeof((float)1.1));
printf("%d, %d\n",sizeof(1.11),sizeof(1.1L));
printf("%d, %d\n",sizeof((int)1.1),sizeof((unsigned).01.1));
getch();
/* Note: The default float is double or long float i.e. 8 bytes */
____ △ 🔯 📆 🕪 add 10:47 A
```

