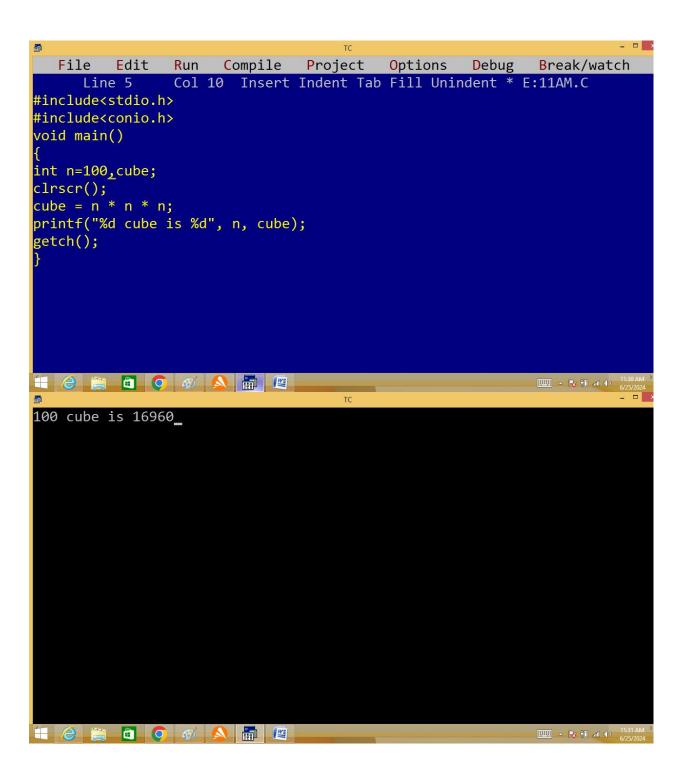
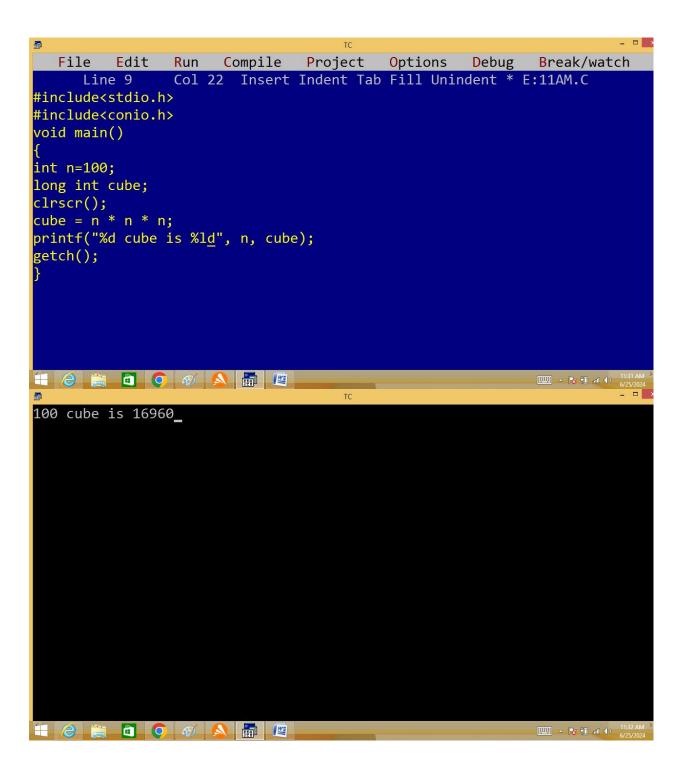
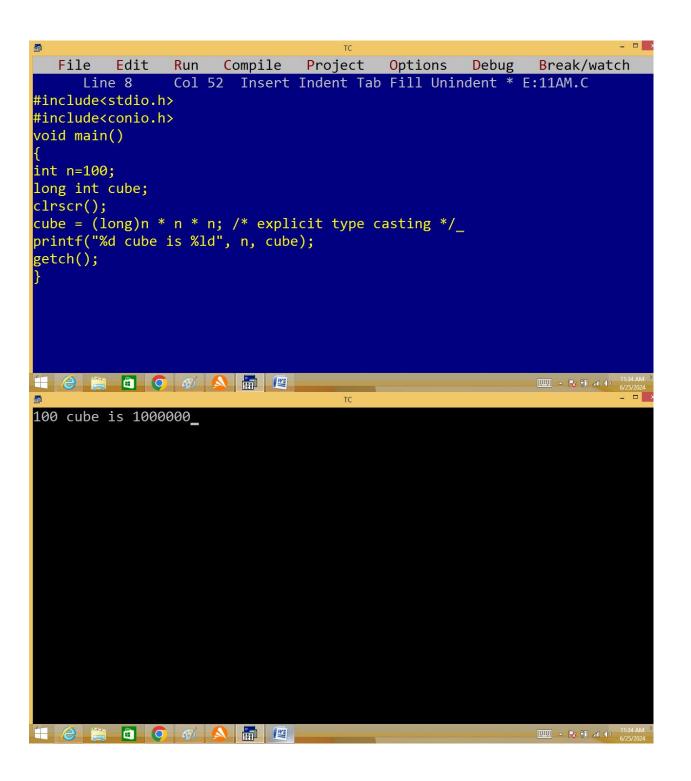
Finding cube value:

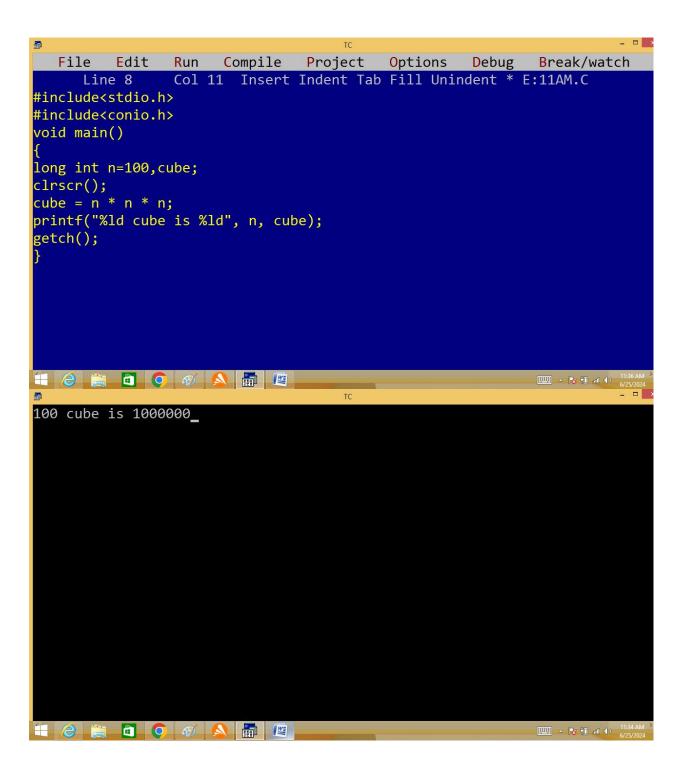
$$n^3 = n * n* n$$

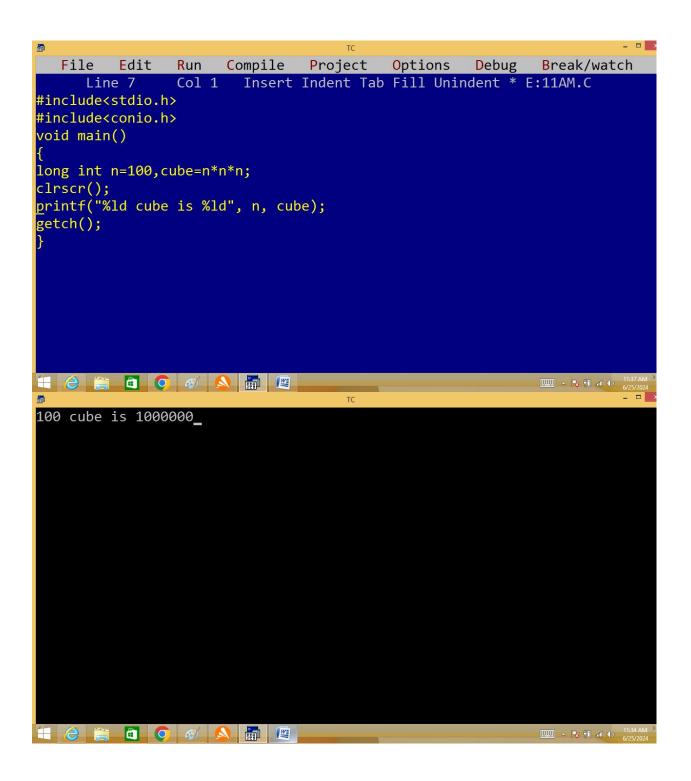
```
_ 🗆 >
File Edit Run Compile Project Options Debug Break/watch
             Col 32 Insert Indent Tab Fill Unindent * E:11AM.C
     Line 8
#include<stdio.h>
#include<conio.h>
void main()
int n=10,cube;
clrscr();
cube = n * n * n;
printf("%d cube is %d", n, cube);
getch();
10 cube is 1000
■■ ^ 🔯 🛍 🐠 11:30 AM
```

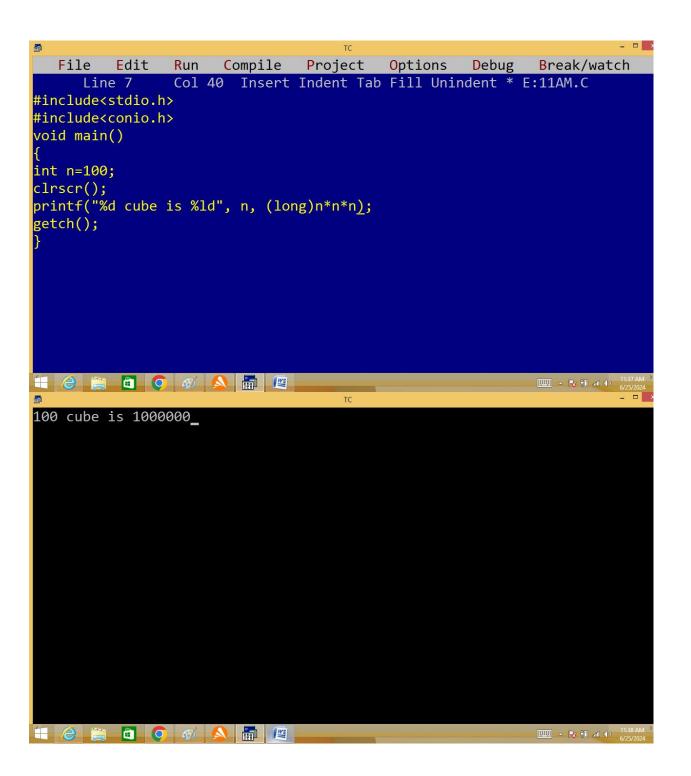












Finding power value:

$$2^5 = 32$$

```
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              Col 17 Insert Indent Tab Fill Unindent * E:11AM.C
     Line 3
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
int b, p;
clrscr();
printf("Enter base, power values "); scanf("%d %d",&b, &p);
printf("%d ^ %d = %d", b,p, pow(b,p));
getch();
Enter base, power values 2 5
2 ^ 5 = 0_
- 11:41 AM
6/25/2024
```

```
_ 🗆 🗦
 File Edit Run
                    Compile Project Options Debug Break/watch
             Col 72 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
int b, p;
clrscr();
printf("Enter base, power values "); scanf("%d %d",&b, &p);
printf("%d ^ %d = %f\n", b,p, pow(b,p));
printf("%d ^ %d = %.0f\n", b,p, pow(b,p));
printf("%d ^ %d = %d", b,p, (int)pow(b,p)); /* explicit type casting */
getch();
Enter base, power values 2 5
2 ^5 = 32.000000
2 ^ 5 = 32
2 ^ 5 = 32
△ 🎠 📆 📶 🕩 11:46 A
```

Add two numbers without using +:

```
File Edit Run Compile Project Options Debug Break/watch
    Line 10
             Col 38 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
int a,b;
clrscr();
printf("%d + %d = %d\n",a,b,a-(-b));
printf("%d + %d = %d\n",a,b,a- -b);
printf("%d + %d = %d\n",a,b,a-(~b)-1);
getch();
Enter a, b values 10 20
10 + 20 = 30
10 + 20 = 30
10 + 20 = 30
△ 🔯 🗓 and 🌖 11:51 AM 6/25/2024
```

```
a-(~b)-1
10-(~20)-1
10-(-21)-1
10+21-1
31-1=30
```

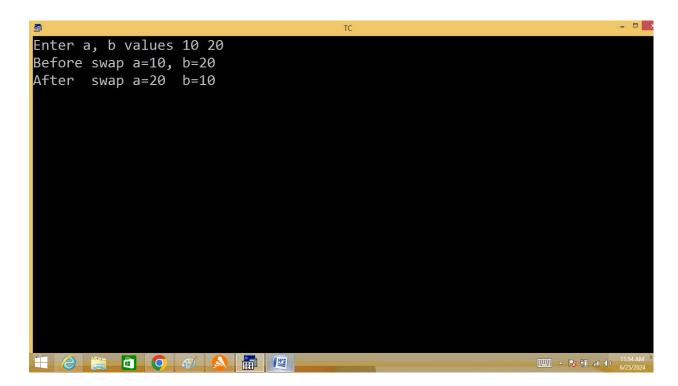
Swap two numbers without using operators:

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

Line 10 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C

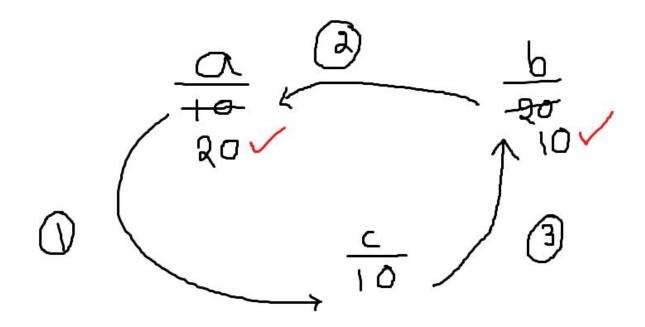
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
printf("Before swap a=%d, b=%d\n",a,b);
printf("After swap a=%d b=%d",b,a);
getch();
}

### Page April 10 Page Apri
```



Using 3rd variable:

```
_ 🗆 >
                   Compile Project Options Debug Break/watch
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     Line 10 Col 36 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
int a,b,c;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
printf("Before swap a=%d, b=%d\n",a,b);
c=a; a=b; b=c;
printf("After swap a=%d b=%d",a,b);
getch();
Enter a, b values 10 20
Before swap a=10, b=20
After swap a=20 b=10_
■■ ▲ 🗽 🗓 and ♦) 12:00 PM 6/25/2024
```



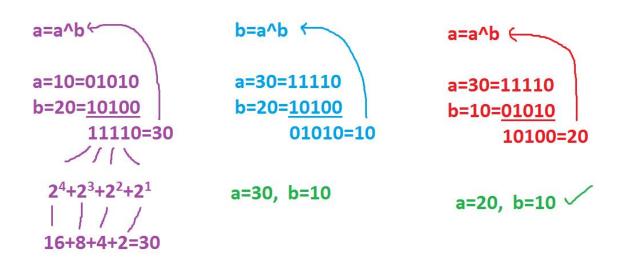
Without using 3rd variable:

```
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 File Edit Run Compile Project Options Debug Break/watch
     Line 11 Col 21 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
int a,b;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
printf("Before swap a=%d, b=%d\n",a,b);
/*a=a+b; b=a-b; a=a-b;
a=a*b; b=a/b; a=a/b; */
a=a^b; b=a^b; a=a^b;
printf("After swap a=%d b=%d",a,b);
getch();
Enter a, b values 10 20
Before swap a=10, b=20
After swap a=20 b=10_
______ ^ Pr 11:04 PI (10) 12:04 PI (10) 6/25/20
```

$$10 = 1010$$

a=30, b=20

20=10100



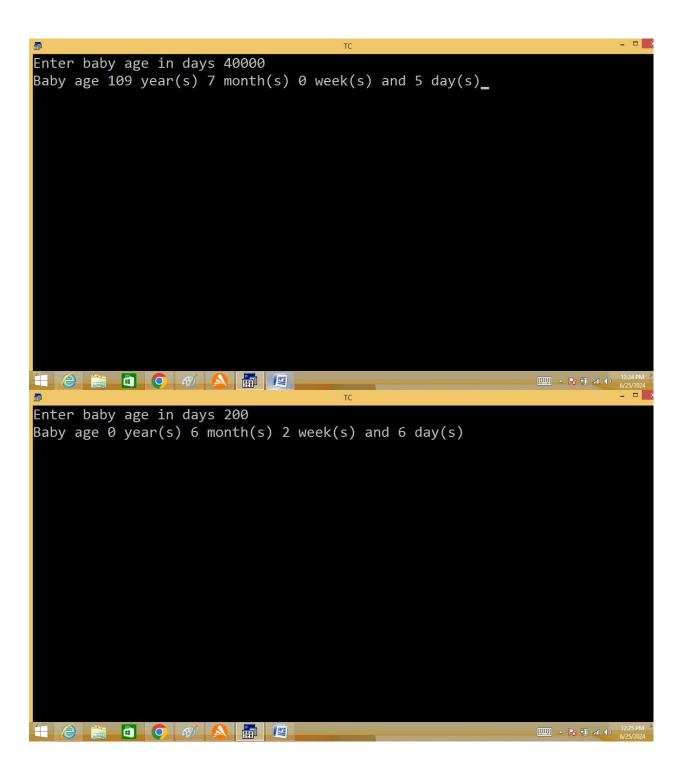
Read a baby age in no of days and find the baby age in years, months, weeks and days.

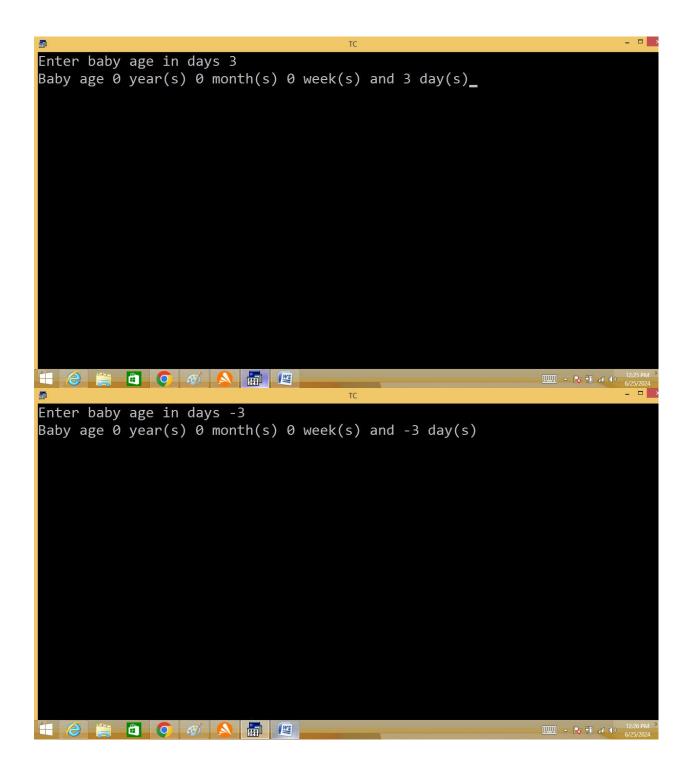
y = 500/365=1 m= 500%365=135/30=4 w= 500%365=135%30=15/7=2 d= 500%365=135%30=15%7=1

```
_ 🗆 >
 File
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            Col 1 Insert Indent Tab Fill Unindent * E:11AM.C
     Line 12
#include<stdio.h>
#include<conio.h>
void main()
int tdays, y,m,w,d;
clrscr();
printf("Enter baby age in days "); scanf("%d",&tdays);
y = tdays/365;
m = tdays%365/30;
w = tdays%365%30/7;
d = tdays%365%30%7;
printf("Baby age %d year(s) %d month(s) %d week(s) and %d day(s)",y,m,w,d);
getch();
Enter baby age in days 500
Baby age 1 year(s) 4 month(s) 2 week(s) and 1 day(s)
```

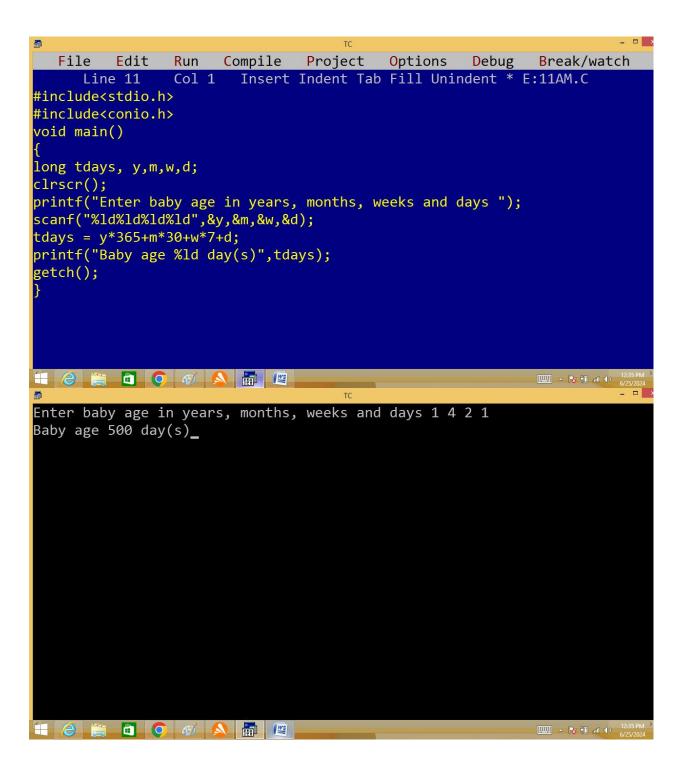


```
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Enter baby age in days 40000
Baby age -69 year(s) -11 month(s) -3 week(s) and 0 day(s)
File Edit Run Compile Project Options Debug Break/watch
             Col 61 Insert Indent Tab Fill Unindent * E:11AM.C
    Line 12
#include<stdio.h>
#include<conio.h>
void main()
long tdays, y,m,w,d;
clrscr();
y = tdays/365;
m = tdays\%365/30;
w = tdays%365%30/7;
d = tdays%365%30%7;
printf("Baby age %ld year(s) %ld month(s) %ld week(s) and %ld day(s)",y,m,w
getch();
```





Read baby age in years, months, weeks and days. Find baby age in total days.



```
Enter baby age in years, months, weeks and days 22 5 3 2
Baby age 8203 day(s)
```

Read two numbers and perform all arithmetic operations [+, -, *, %, /]:

```
_ 🗆 >
#include<stdio.h>
#include<conio.h>
void main()
int a,b,c,d,e,f,g; clrscr();
printf("Enter two numbers ");scanf("%d %d",&a, &b);
c=a+b;
d=a-b;
e=a*b;
f=a%b;
g=a/b;
printf("Sum=%d\n",c);
printf("Sub=%d\n",d);
printf("Pro=%d\n",e);
printf("Mod=%d\n",f);
printf("Div=%d\n",g);
getch();
Enter two numbers 10 5
Sum=15
Sub=5
Pro=50
Mod=0
Div=2
```

```
_ 🗇 🗙
  File Edit
               Run Compile Project Options Debug Break/watch
               Col 1
                      Insert Indent Tab Fill Unindent * E:11AM.C
     Line 6
#include<stdi<u>o.h></u>
#include<conio.h>
void main()
int a,b;
clrscr();
printf("Enter two numbers ");scanf("%d %d",&a, &b);
printf("Sum=%d\n",a+b);
printf("Sub=%d\n",a-b);
printf("Pro=%d\n",a*b);
printf("Mod=%d\n",a%b);
printf("Div=%d\n",a/b);
getch();
Enter two numbers 5 2
Sum=7
Sub=3
Pro=10
Mod=1
Div=2
_____ ^ 12:47 PM
```

```
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  File Edit
              Run
                    Compile Project Options Debug Break/watch
              Col 26 Insert Indent Tab Fill Unindent * E:11AM.C
     Line 12
#include<stdio.h>
#include<conio.h>
void main()
int a,b;
clrscr();
printf("Enter two numbers ");scanf("%d %d",&a, &b);
printf("Sum=%d\n",a+b);
printf("Sub=%d\n",a-b);
printf("Pro=%d\n",a*b);
printf("Mod=%d\n",a%b);
printf("Div=%.2f\n", (float)a/b);
getch();
Enter two numbers 5 2
Sum=7
Sub=3
Pro=10
Mod=1
Div=2.50
_____ ^ 12:48 PM
```

```
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  File Edit
               Run
                    Compile Project Options Debug Break/watch
               Col 17 Insert Indent Tab Fill Unindent * E:11AM.C
     Line 3
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
float a,b;
clrscr();
printf("Enter two numbers ");scanf("%f %f",&a, &b);
printf("Sum=%.2f\n",a+b);
printf("Sub=%.2f\n",a-b);
printf("Pro=%.2f\n",a*b);
printf("Mod=%.2f\n",fmod(a,b));
printf("Div=%.2f\n",a/b);
getch();
Enter two numbers 5.5 4.4
Sum=9.90
Sub=1.10
Pro=24.20
Mod=1.10
Div=1.25
□□□ △ 🔯 🗊 and ♦) 12:50 PM
```

1. Celsius to Fahrenheit conversion

$$37^{\circ}c = 98.6^{\circ}F$$

2. Fahrenheit to Celsius

$$3.(2+3)^2 = 2^2 + 3^2 + 2*2*3 = 25$$