

1.sum,subtract,multiply,divide

The screenshot displays the Code::Blocks IDE interface. The main editor window shows a C program named `sum,subtract,multiplication,divide.c`. The program includes `stdio.h` and defines a `main` function. It prompts the user to enter two values, `a` and `b`, and then performs four operations: addition, subtraction, multiplication, and division, storing the results in a variable `d`. The program returns 0.

```
1 #include<stdio.h>
2 float main()
3 {
4     float a,b,c,d;
5     printf("\nPlease enter first value: ");
6     scanf("%f",&a);
7     printf("\nPlease enter second value: ");
8     scanf("%f",&b);
9     printf("\nPlease enter second value: ");
10    scanf("%f",&c);
11    d=a+b+c;
12    printf("Addition: %f",d);
13    d=c-b-a;
14    printf("\nSubtraction: %f",d);
15    d=a*b*c;
16    printf("\nMultiplication: %f",d);
17    d=a/b;
18    printf("\nDivision: %f",d);
19
20    return 0;
21 }
22
```

A terminal window is overlaid on the IDE, showing the execution output. It displays the prompts and the results of the operations for the input values 10 and 20. The output shows the addition result as 60.000000, subtraction as 0.000000, multiplication as 6000.000000, and division as 0.500000. The process returned 19 (0x13) and the execution time was 4.678 s.

```
Please enter first value: 10
Please enter second value: 20

Please enter second value: 30
Addition: 60.000000
Subtraction: 0.000000
Multiplication: 6000.000000
Division: 0.500000
Process returned 19 (0x13)   execution time : 4.678 s
Press any key to continue.
```

The bottom status bar of the IDE shows the file path `F:\CODE\Ir-2,04324205101011\sum,subtract,multiplication,divide.c`, the compiler `C/C++`, the window title `Windows (CR+LF)`, the window ID `WINDOWS-1252`, the current line and column `Line 22, Col 1, Pos 473`, the insert mode, the read/write status, and the default language `ENG`. The system tray at the bottom right shows the date and time `5:47 AM 9/9/2024`.

2.peri,area of rectangle

The screenshot displays the Code::Blocks IDE with a C program for calculating the perimeter and area of a rectangle. The program is named `peri,area of rectangle.c` and is located in the workspace `peri,area of rectangle.c`. The code is as follows:

```
1
2  #include<stdio.h>
3  int main()
4  {
5      int length,breadth,area,perimeter;
6      printf("Enter the value of length:");
7      scanf("%d",&length);
8      printf("Enter the value of breadth:");
9      scanf("%d",&breadth);
10     area=length*breadth;
11     printf("Area: %d",area);
12     perimeter=2*(length+breadth);
13     printf("\nPerimeter: %d",perimeter);
14
15     return 0;
16 }
17
```

The program prompts the user to enter the length and breadth of a rectangle. The user enters 2 for length and 3 for breadth. The program calculates the area (6) and the perimeter (10) and displays the results.

The terminal window shows the execution of the program:

```
"F:\CODE\Ir-2,0432420510101" x + v
Enter the value of length:2
Enter the value of breadth:3
Area: 6
Perimeter: 10
Process returned 0 (0x0)   execution time : 2.173 s
Press any key to continue.
```

The bottom of the screenshot shows the "Logs & others" panel with the following messages:

```
File Line Message
--- Build file: "no target" in "no project" (compiler: unknown) ---
--- Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ---
```

The status bar at the bottom indicates the current file is `C/C++`, the window is `Windows (CR+LF)`, the line is `Line 14, Col 1, Pos 349`, and the encoding is `UTF-8`.

3.diam,circum,area of circle

The screenshot displays the Code::Blocks IDE interface. The main editor window shows a C program for calculating the diameter, circumference, and area of a circle. The program includes `<stdio.h>` and defines a `main()` function. Inside the function, it declares variables for radius, diameter, circumference, and area. It prompts the user to enter the radius, reads the input, and then calculates the diameter ($diameter = radius * 2$), circumference ($circum = 2 * 3.1416 * radius$), and area ($area = 3.1416 * radius * radius$). The results are printed using `printf`, and the function returns 0.

```
1  #include<stdio.h>
2  float main()
3  {
4      float radius,diameter,circum,area;
5      printf("Enter the value of radius: ");
6      scanf("%f",&radius);
7      diameter=radius*2;
8      printf("Diameter of circle: %f",diameter);
9      circum=2*3.1416*radius;
10     printf("\nCircumference of circle: %f",circum);
11     area=3.1416*radius*radius;
12     printf("\nArea of circle: %f",area);
13     return 0;
14 }
```

The 'Logs & others' panel at the bottom shows build messages:

```
=== Build file: "no target" in "no project" (compiler: unknown) ===
--- Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ---
```

An external terminal window is overlaid on the IDE, showing the program's execution output for a radius of 3:

```
Enter the value of radius: 3
Diameter of circle: 6.000000
Circumference of circle: 18.849600
Area of circle: 28.274401
Process returned 26 (0x1A)    execution time : 1.630 s
Press any key to continue.
```

The status bar at the bottom indicates the current file is `F:\CODE\Ir-2,04324205101011\3.area,dia,circum of circle.c`, the editor is in C/C++ mode, and the cursor is at Line 14, Col 2, Pos 390.

4.area of triangle

The screenshot displays the Code::Blocks IDE interface. The main editor window shows a C program for calculating the area of a triangle. The code is as follows:

```
1  #include<stdio.h>
2  int main()
3  {
4      int base,height,area;
5      printf("Enter the value of base: ");
6      scanf("%d",&base);
7      printf("Enter the value of height: ");
8      scanf("%d",&height);
9      area=.5*base*height;
10     printf("Area of triangle: %d",area);
11     return 0;
12 }
13
```

A terminal window is open, showing the program's execution. The output is as follows:

```
Enter the value of base: 2
Enter the value of height: 3
Area of triangle: 3
Process returned 0 (0x0)   execution time : 2.290 s
Press any key to continue.
```

The status bar at the bottom of the IDE shows the file path: F:\CODE\Ir-2,0432420510101\4.area of triangle.c, and the current position: Line 13, Col 1, Pos 263.

5.convert cm to m to km

The screenshot shows the Code::Blocks IDE with a C program for converting centimeters to meters and kilometers. The program is named "4.convert cm to m to km.c". The code is as follows:

```
1  #include<stdio.h>
2  float main()
3  {
4      float cm,m,km;
5      printf("Enter the value of cm: ");
6      scanf("%f",&cm);
7      m=cm/100;
8      printf("Cm to M: %f m",m);
9      km=cm/100000;
10     printf("Cm to KM: %f km",km);
11     return 0;
12 }
13
```

The terminal window shows the execution output for an input of 100000 cm:

```
Enter the value of cm: 100000
Cm to M: 1000.000000 mCm to KM: 1.000000 km
Process returned 21 (0x15)   execution time : 2.976 s
Press any key to continue.
```

The bottom status bar shows the file path: F:\CODE\lr-2,04324205101011\4.convert cm to m to km.c, the compiler: C/C++, and the window title: Windows (CR+LF).

6.celsius to fahrenheit

The screenshot displays the Code::Blocks IDE interface. The main editor window shows a C++ program for converting Celsius to Fahrenheit. The code is as follows:

```
1 #include<stdio.h>
2 float main()
3 {
4     float Celsius,Fahrenheit;
5     printf("Enter the value of Celsius: ");
6     scanf("%f",&Celsius);
7     Fahrenheit=(Celsius*9/5)+32;
8     printf("Converting celsius into Fahrenheit: %f F",Fahrenheit);
9     return 0;
10 }
11
```

A terminal window is open, showing the program's execution. The user entered '3' for Celsius, and the program outputted 'Converting celsius into Fahrenheit: 37.400002 F'. The terminal also shows the process returned 47 (0x2F) and the execution time was 1.520 s.

The bottom status bar indicates the file path: F:\CODE\Ir-2,04324205101011\6.celsius to fahrenheit.c. The status bar also shows the current line and column: Line 8, Col 53, Pos 225.

The bottom taskbar shows the Windows taskbar with various application icons and the system clock: 6:14 AM, 9/9/2024.

7.fahrenheit to celsius

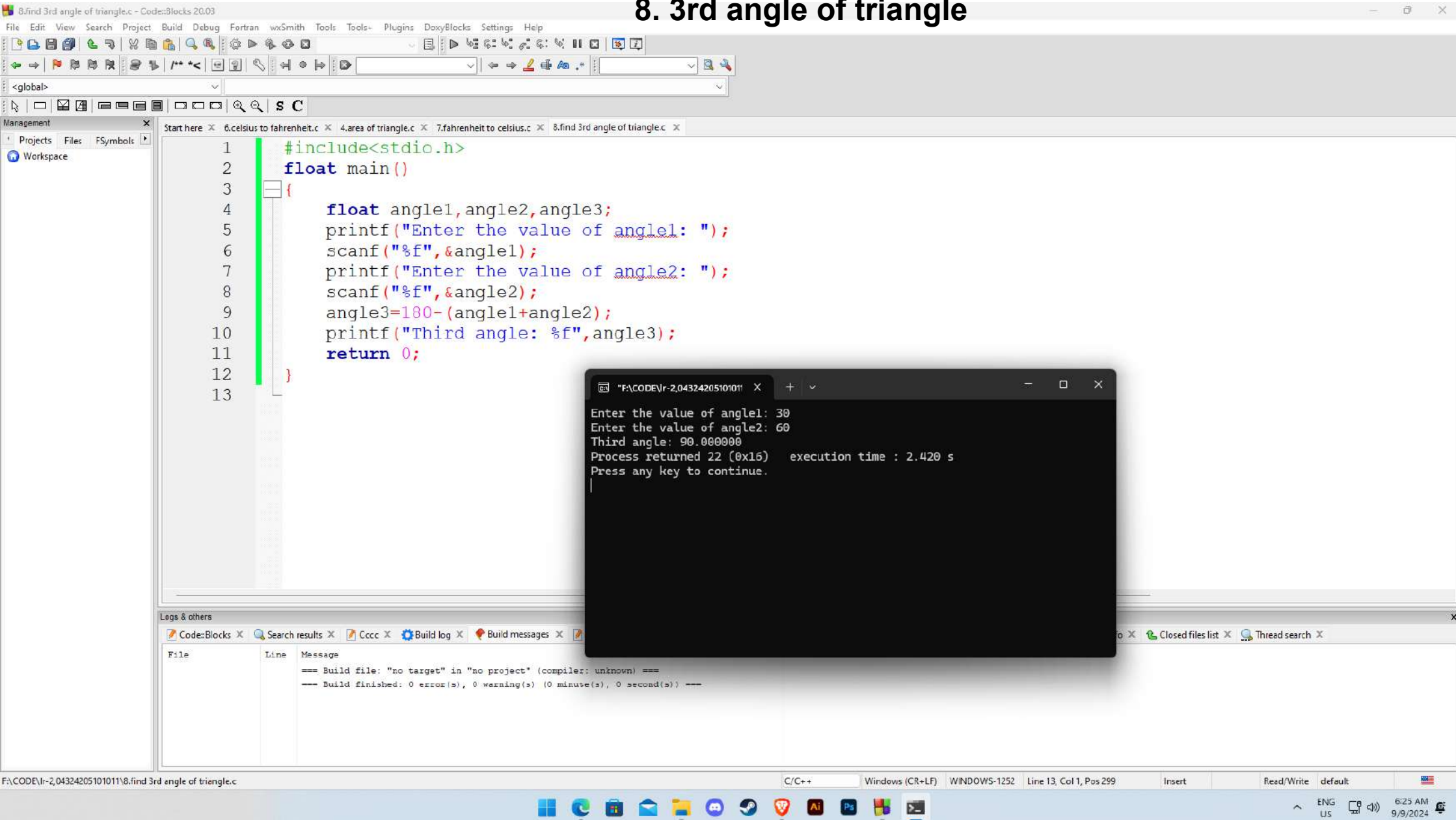
The screenshot displays the Code::Blocks 20.03 IDE interface. The main editor window shows a C program for converting Fahrenheit to Celsius. The code is as follows:

```
1 #include<stdio.h>
2 float main()
3 {
4     float Fahrenheit,Celsius;
5     printf("Enter the value of Fahrenheit: ");
6     scanf("%f",&Fahrenheit);
7     Celsius=(Fahrenheit-32)*5/9;
8     printf("Converting Fahrenheit into Celsius: %f C",Celsius);
9     return 0;
10 }
11
```

Below the code editor, a terminal window titled "F:\CODE\Ir-2,0432420510101" shows the program's execution. The user entered 37 for Fahrenheit, and the program outputted 2.777778 C. The terminal also shows the process returned 46 (0x2E) and the execution time was 3.126 s.

The bottom status bar of the IDE shows the file path: F:\CODE\Ir-2,0432420510101\7.fahrenheit to celsius.c. The taskbar at the very bottom shows the Windows taskbar with various application icons and the system clock indicating 6:22 AM on 9/9/2024.

8. 3rd angle of triangle



The screenshot displays the Code::Blocks IDE interface. The main editor window shows a C program titled "8.find 3rd angle of triangle.c". The code is as follows:

```
1 #include<stdio.h>
2 float main()
3 {
4     float angle1,angle2,angle3;
5     printf("Enter the value of angle1: ");
6     scanf("%f",&angle1);
7     printf("Enter the value of angle2: ");
8     scanf("%f",&angle2);
9     angle3=180-(angle1+angle2);
10    printf("Third angle: %f",angle3);
11    return 0;
12 }
13
```

A terminal window is open in the foreground, showing the program's execution. It prompts for the values of angle1 and angle2, and displays the calculated third angle.

```
"FA\CODE\Ir-2,04324205101011" X + v
Enter the value of angle1: 30
Enter the value of angle2: 60
Third angle: 90.000000
Process returned 22 (0x16)   execution time : 2.420 s
Press any key to continue.
```

The bottom status bar of the IDE shows the file path: "F:\CODE\Ir-2,04324205101011\8.find 3rd angle of triangle.c". The taskbar at the bottom of the screen shows various application icons and the system clock indicating 6:25 AM on 9/9/2024.

9.area of equilateral triangle

The screenshot displays the Code::Blocks IDE interface. The main editor window shows a C program for calculating the area of an equilateral triangle. The code is as follows:

```
1 #include<stdio.h>
2 float main()
3 {
4     float a,Area;
5     printf("Enter the value of a: ");
6     scanf("%f",&a);
7     Area=(sqrt(3)/4)*a*a;
8     printf("The area of equilateral triangle: %f",Area);
9     return 0;
10 }
11
```

Below the code editor, the 'Logs & others' panel shows build messages:

```
File Line Message
0432420510101... == Build file: "no target" in "no project" (compiler: unknown)
0432420510101... In function 'main':
0432420510101... 7 warning: implicit declaration of function 'sqrt' [-Wimplicit-function-declaration]
0432420510101... 7 warning: incompatible implicit declaration of built-in function 'sqrt'
0432420510101... 7 note: include '<math.h>' or provide a declaration of 'sqrt'
0432420510101... == Build finished: 0 error(s), 2 warning(s) (0 minute(s), 0 second(s)) ==
```

Overlaid on the IDE is a terminal window titled "F:\CODE\lr-2,0432420510101" showing the program's execution:

```
Enter the value of a: 5
The area of equilateral triangle: 10.825317
Process returned 43 (0x2B)   execution time : 2.140 s
Press any key to continue.
```

The Windows taskbar at the bottom shows the system clock as 9:18 AM on 9/14/2024.

10.total,average,percentage of 5 sub

The screenshot displays the Code::Blocks IDE environment. The main editor window contains the following C++ code:

```
2 float main()
3 {
4     float sub1,sub2,sub3,sub4,sub5,total,average,percentage;
5     printf("Enter the mark of 1st Subject: ");
6     scanf("%f",&sub1);
7     printf("Enter the mark of 2nd Subject: ");
8     scanf("%f",&sub2);
9     printf("Enter the mark of 3rd Subject: ");
10    scanf("%f",&sub3);
11    printf("Enter the mark of 4th Subject: ");
12    scanf("%f",&sub4);
13    printf("Enter the mark of 5th Subject: ");
14    scanf("%f",&sub5);
15    total=sub1+sub2+sub3+sub4+sub5;
16    average=total/5;
17    percentage=(total/500)*100;
18    printf("Total: %f \nAverage: %f \nPercentage: %f",total,average,percentage);
19
20    return 0;
21 }
22
```

A terminal window titled "F:\CODE\Ir-2,04324205101011" is open, showing the program's execution. The input and output are as follows:

```
Enter the mark of 1st Subject: 80
Enter the mark of 2nd Subject: 83
Enter the mark of 3rd Subject: 77
Enter the mark of 4th Subject: 70
Enter the mark of 5th Subject: 90
Total: 400.000000
Average: 80.000000
Percentage: 80.000000
Process returned 60 (0x3C)   execution time : 18.086 s
Press any key to continue.
```

The bottom status bar shows the file path: F:\CODE\Ir-2,04324205101011\10.total,average,percentage of 5 sub.c. The taskbar at the bottom includes icons for Windows, Edge, File Explorer, and other applications, along with the system clock showing 9:31 AM on 9/14/2024.