

The screenshot shows the Code::Blocks IDE interface. The main window displays a C source code file named `main.c`. The code implements a simple number guessing game where the computer generates a random number between 0 and 100, and the user tries to guess it. The user is prompted to enter a guess, and if it's correct, a congratulatory message is printed. If incorrect, the user is given another chance. The code uses standard input/output functions from `<stdio.h>`, `<stdlib.h>`, and `<time.h>`.

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <time.h>
4
5 int main()
6 {
7     int randomno=0, count=0, numb;
8     int stime;
9     long ltime;
10    ltime = time(NULL);
11    stime = (unsigned) ltime/2;
12    srand(stime);
13
14    randomno=rand()%100;
15
16    while(1)
17    {
18
19        count+=1;
20
21        printf("\n\nGuess a number from 0 to 100: ");
22        scanf("%d", &numb);
23
24        if(randomno==numb)
25        {
26            printf("Congratulations, your guess is correct!");
27            break;
28        }
29    }
30 }
```

Below the code editor, the "Logs & others" tab is selected, showing the build log:

```
Code::Blocks X Search results X Cocc X Build log X Build messages X CopCheck/Verify X
Build terminated with status 0 (0 minute(s), 52 second(s))

----- Run: Debug in covidfive (compiler: GNU GCC Compiler) -----
checking for existence: C:\Users\BC\Desktop\covidfive\bin\Debug\covidfive.exe
executing: "C:\Program Files (x86)\CodeBlocks\bin\console_runner.exe" "C:\Users\BC\Desktop\covidfive\bin\Debug\covidfive.exe"
```

The screenshot shows the Code::Blocks IDE interface. The top window displays the source code for a C program named `main.c`. The code implements a simple number guessing game where the user tries to guess a random number between 0 and 100. The user has 7 tries. If the user runs out of tries, the program ends. The code uses `scanf` for input and `printf` for output. The bottom window shows the terminal output after compilation and execution.

```
main() : int
main.c X
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others
Code::Blocks X Search results X Ccc X Build log X Build messages X CppCheck/Vera++ X Cpp
you terminated with status 0 (0 minute(s), 0 second(s))

Run: Debug in covidfive (compiler: GNU GCC Compiler)-----
using file: C:\Users\SC\Desktop\covidfive\bin\Debug\covidfive.exe
using file: C:\Program Files (x86)\CodeBlocks\cb_console_number.exe" "C:\Users\SC\Desktop\covidfive\bin\Debug\covidfive.exe"

```

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minic X |
```

```
int main()
{
    int a;
    int baby=0, school=0, adult=0;
    int count=0;

    while (count<20);
    {
        printf("Enter age [%d]: ", count+1);
        scanf("%d", &a);

        if(a>=0 && a<=5)
            baby++;
        else if(a>=6 && a<=17)
            school++;
        else
            adult++;

        count++;
    }

    printf("Number of babies: %d\n", baby); I
    printf("Number of students: %d\n", school);
    printf("Number of adults: \n", adult);

    return 0;
}
```

Others

Code::Blocks X Search results X Ccc X Build log X Build messages X CopChe

```
-- Run: Debug in covidfive (compiler: GNU GCC Compiler) --
-- in file: C:\Users\EC\Desktop\covidfive\bin\Debug\covidfive.exe
-- Program terminated with status -1073741510 (0 minutes 00.2 seconds)
```

The screenshot shows the Code::Blocks IDE interface. The top menu bar includes 'Editor', 'WCSmith', 'Tools', 'Tools+', 'Plugins', 'DoxygenBlocks', 'Settings', and 'Help'. The toolbar contains various icons for file operations like Open, Save, and Build. The main workspace displays two tabs: 'main.c' and 'main.c'. The code in 'main.c' is as follows:

```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int a;
    int y, w, d;
    a = 1343;
    y = a/365;
    w = (a%365)/7;
    d = (a%365)%7;
    printf("\n%d days is equivalent to %d years, %d weeks and %d days", a, y, w, d);
    return 0;
}
```

The bottom part of the interface shows the terminal window with the output of the program:

```
-- Run: Debug in covidfive (compiler: GNU GCC Compiler) --
For assistance, C:\Users\BC\Desktop\covidfive\bin\Debug\covidfive.exe
C:\Program Files (x86)\CodeBlocks\cm console runner.exe" "C:\Users\BC\Desktop\covidfive\bin\Debug\covidfive
terminated with status -1073741810 (0 minutes), 2 seconds)
```

The status bar at the bottom indicates the current mode is 'GCC++', encoding is 'Windows (CR+LF)', character set is 'WINDOWS-1252', and the cursor position is 'Line 13, Col 1, Pos 262'.

covidthree - Code::Blocks 17.12

File View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins

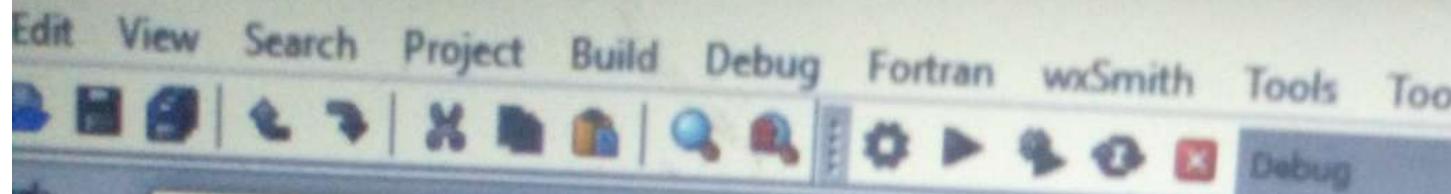
C:\Users\BC\Desktop\covidthree\bin\Debug\covidthree.exe

Enter the length of side 1:3  
Enter the length of side 2:4  
Enter the length of side 3:5  
The perimeter this triangle is 12.000000  
Process returned 0 (0x0) execution time : 8.452 s  
Press any key to continue.

The screenshot shows a C IDE interface with a code editor displaying a C program. The menu bar includes 'File', 'Edit', 'Tools', 'Tools+', 'Plugins', and 'DoxygenBlocks'. The toolbar contains various icons for file operations and debugging. The code editor has tabs for multiple files, all named 'main.c' with different modification symbols (X, .\*, etc.). The main code is as follows:

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     float a, b, c, p;
7     printf("\nEnter the length of side 1:");
8     scanf("%f", &a);
9     printf("\nEnter the length of side 2:");
10    scanf("%f", &b);
11    printf("\nEnter the length of side 3:");
12    scanf("%f", &c);
13
14    if(a < (b+c) && b < (a+c) && c < (b+c))
15    {
16        p=a+b+c;
17        printf("\n The perimeter this triangle is ");
18    }
19    else
20        printf("\nSorry, this triangle is invalid");
21
22    return 0;
23
24 }
```

in.c [covidtwo] - Code::Blocks 17.12



C:\Users\BC\Desktop\covidtwo\bin\Debug\covidtwo.exe

```
Enter x component of first point:6
```

```
Enter y component of first point:2
```

```
Enter x component of second point:7
```

```
Enter y component of second point:1
```

```
The distance between the two points is 1.4142
```

```
Process returned 0 (0x0) execution time : 9.904 s
```

```
Press any key to continue.
```

The screenshot shows a C programming environment with a toolbar at the top featuring icons for file operations, search, and help. Below the toolbar is a menu bar with options like File, Edit, View, Insert, Tools, Options, Help, and a Debug dropdown. The main window displays a single tab labeled "main.c" containing the following C code:

```
#include <stdio.h>
#include <math.h>

int main()
{
    float dist, x1, y1, x2, y2;
    printf("\nEnter x component of first point:");
    scanf("%f", &x1);
    printf("\nEnter y component of first point:");
    scanf("%f", &y1);
    printf("\nEnter x component of second point:");
    scanf("%f", &x2);
    printf("\nEnter y component of second point:");
    scanf("%f", &y2);
    dist = ((x2 - x1) * (x2 - x1)) + ((y2 - y1) * (y2 - y1));
    printf("\nThe distance between the two points is %f", dist);
    return 0;
}
```

main.c [covidone] - Code::Blocks 17.12

Edit View Search Project Build Debug Fortran wxSmith Tools Tools+

C:\Users\BC\Desktop\covidone\bin\Debug\covidone.exe

1343 days is equivalent to 3 years, 35 weeks and 3 days  
Process returned 0 (0x0) execution time : 0.145 s

Press any key to continue.

C:\Users\BC\Desktop\covidthree\bin\Debug\covidthree.exe

```
Enter the length of side 1:5
Enter the length of side 2:100
Enter the length of side 3:9
Sorry, this triangle is invalid
Process returned 0 (0x0) execution time : 8.651
Press any key to continue.
```

A screenshot of a Windows desktop environment showing a terminal window running a C program. The terminal window title is "main() : int". The window displays the following text:

```
C:\Users\BC\Desktop\covidfive\bin\Debug>covidfive.exe
Guess a number from 0 to 100: 50
Number is more than correct number, try again
Guess a number from 0 to 100: 40
Number is more than correct number, try again
Guess a number from 0 to 100: 30
Number is less than correct number, try again
Guess a number from 0 to 100: 35
Number is less than correct number, try again
Guess a number from 0 to 100: 36
Congratulations, your guess is correct!
Process returned 0 (0x0)   execution time : 25.267 s
Press any key to continue.
```

The terminal window is part of a larger application window titled "main.c". The application window also shows a file tree on the left with a file named "main.c" selected. The status bar at the bottom of the application window shows:

```
Process terminated with status 0 (0 minutes(s), 52 seconds(s))
Run: Debug in covidfive (compiler: GNU GCC Compiler)
Checking for existence: C:\Users\BC\Desktop\covidfive\bin\Debug\covidfive.exe
Executing: "C:\Program Files (x86)\CodeBlocks\cb_masmie_debug.exe" "C:\Users\BC\Desktop\covidfive\main.c"
```