



```
main.c [cave22] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
<global>
main(): int
Management
Projects Symbols Files
Workspace
cave22
Sources
main.c
*main.c x main.c x
3
4 int main()
5 {
6     float x1, x2, y1, y2, distance;
7
8     printf("Input x1: ");
9     scanf("%f", &x1);
10    printf("Input x2: ");
11    scanf("%f", &x2);
12    printf("Input y1: ");
13    scanf("%f", &y1);
14    printf("Input y2: ");
15    scanf("%f", &y2);
16
17    distance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
18
19    printf("Distance between the two points = %.4f", sqrt(distance));
20    printf("\n");
21    return 0;
22 }
23
Logs & others
Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Ver++
----- Run: Debug in cave22 (compiler: GNU GCC Compiler)-----
Checking for existence: C:\Users\KINGGS\Desktop\C programming\cave22\bin\Debug\cave22.exe
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\KINGGS\Desktop\C programming\cave22\bin\Debug\cave22.exe"
Process terminated with status 0 (0 minute(s), 4 second(s))
```

```
Debug
wxsmith tools Tools+ Plugins DoxyBlocks Settings Help
main(): int
*main.c x main.c x
Symbols
Files
"C:\Users\KINGGS\Desktop\C programming\cave22\bin\Debug\cave22.exe"
Input x1: 5
Input y1: 8
Input x2: 9
Input y2: 5
Distance between the two points = 5.0000
Process returned 0 (0x0) execution time : 5.220 s
Press any key to continue.
```

The screenshot shows the Code::Blocks IDE with a C program open in the editor. The program prompts the user for three numbers and calculates the perimeter of a triangle if the sides are valid. The code is as follows:

```
1 #include <stdio.h>
2 int main()
3 {
4     float side1, side2, side3, Perimeter;
5
6     printf("Input the first number: ");
7     scanf("%f", &side1);
8     printf("Input the second number: ");
9     scanf("%f", &side2);
10    printf("Input the third number: ");
11    scanf("%f", &side3);
12
13    if(side1 < (side2+side3) && side2 < (side1+side3) && side3 < (side2+side1))
14    {
15        Perimeter = side1+side2+side3;
16
17        printf("Triangle can be made with these values");
18        printf("\nPerimeter = %.1f\n", Perimeter);
19    }
20    else
21    {
22        printf("Triangle can't be made with these values!");
23    }
24 }
25
```

The screenshot shows a terminal window titled "C:\Users\KINGGS\Desktop\C programming\Cave333\bin\Debug\Cave333.exe". The terminal displays the output of the program, including the prompts for the three numbers, the calculation of the perimeter, and the final output.

```
Input the first number: 3
Input the second number: 4
Input the third number: 5
Triangle can be made with these values
mainPerimeter = 12.0

Process returned 0 (0x0)   execution time : 3.338 s
Press any key to continue.
```

```
main.c [Cave4444] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
Management
Projects Symbols Files
Workspace
Cave4444
Sources
main.c
main.c x main.c x
1 #include <stdio.h>
2 int main()
3 {
4     int age;
5     int baby_count=0,school_count=0,adult_count=0;
6     int count=0;
7
8     while(count<20)
9     {
10        printf("Enter age of %d person: ",count+1);
11        scanf("%d",&age);
12
13        if(age>=0 && age<=5)
14            baby_count++;
15        else if(age>=6 && age<=17)
16            school_count++;
17        else
18            adult_count++;
19
20        /*increase counter*/
21        count++;
22    }
23
24    printf("Baby age: %d\n",baby_count);
25    printf("School age: %d\n",school_count);
26    printf("Adult age: %d\n",adult_count);
27
28    return 0;
29 }
30
```

```
main.c [Cave4444] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
Management
Projects Symbols Files
Workspace
Cave4444
Sources
main.c
main.c x main.c x
1 #include <stdio.h>
2 int main()
3 {
4     int age;
5     int baby_count=0,school_count=0,adult_count=0;
6     int count=0;
7
8     while(count<20)
9     {
10        printf("Enter age of %d person: ",count+1);
11        scanf("%d",&age);
12
13        if(age>=0 && age<=5)
14            baby_count++;
15        else if(age>=6 && age<=17)
16            school_count++;
17        else
18            adult_count++;
19
20        /*increase counter*/
21        count++;
22    }
23
24    printf("Baby age: %d\n",baby_count);
25    printf("School age: %d\n",school_count);
26    printf("Adult age: %d\n",adult_count);
27
28    return 0;
29 }
30
"C:\Users\KINGGS\Desktop\C programming\Cave4444\bin\Debug\Cave4444.exe"
Enter age of 1 person: 3
Enter age of 2 person: 3
Enter age of 3 person: 3
Enter age of 4 person: 4
Enter age of 5 person: 2
Enter age of 6 person: 67
Enter age of 7 person: 5
Enter age of 8 person: 45
Enter age of 9 person: 23
Enter age of 10 person: 14
Enter age of 11 person: 13
Enter age of 12 person: 23
Enter age of 13 person: 3
Enter age of 14 person: 5
Enter age of 15 person: 6
Enter age of 16 person: 13
Enter age of 17 person: 23
Enter age of 18 person: 56
Enter age of 19 person: 23
Enter age of 20 person: 23
Baby age: 8
School age: 4
Adult age: 8
Process returned 0 (0x0)   execution time : 21.726 s
Press any key to continue.
```



```
main.c [cave55555] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Workspace
cave55555
Sources
main.c
main.c x main.c x
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <time.h>
4
5
6 int main()
7 {
8     int random_Num=0,count=0,num;
9     int stime;
10    long ltime;
11
12    /*initialize random with current time, to get random number on every run*/
13    ltime = time(NULL);
14    stime = (unsigned) ltime/2;
15    srand(stime);
16
17    /*generate random number*/
18    random_Num=rand()%100;
19
20    /*run infinite loop*/
21    while(1)
22    {
23        /*increase counter*/
24        count+=1;
25
26        /*read number from user*/
27        printf("\n\nGuess a number from (0 to 100): ");
28        scanf("%d",&num);
29
30
31
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46
47
```

```
main.c [cave55555] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Workspace
cave55555
Sources
main.c
main.c x main.c x
19
20    /*run infinite loop*/
21    while(1)
22    {
23        /*increase counter*/
24        count+=1;
25
26        /*read number from user*/
27        printf("\n\nGuess a number from (0 to 100): ");
28        scanf("%d",&num);
29
30        /*compare guessed number with random number*/
31
32        if(random_Num==num)
33        {
34            printf("Correct!! You have guessed a correct number.");
35            break;
36        }
37        else if(random_Num<num)
38        {
39            printf("Random number is less than guessed number, try again.");
40        }
41        else if(random_Num>num)
42        {
43            printf("Random number is greater than guessed number, try again.");
44        }
45    }
46 }
47
```

