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18/Enq06/019
Mechanical Engineering
Enq 229

1) #include <stdio.h>

int main ()

{

int days, years, weeks;

days = 1343;

//converts days to years, weeks and days

years = days/365;

weeks = (days % 365)/7;

days = days - ((years*365) + (weeks*7));

printf ("years: %d\n", years);

printf ("weeks: %d\n", weeks);

printf ("days: %d\n", days);

return 0;

}

2) #include <stdio.h>

#include <math.h>

int main ()

{

float x1, y1, x2, y2, distance;

printf ("input x1: ");

scanf ("%f", &x1);

printf ("input y1: ");

scanf ("%f", &y1);

printf ("input x2: ");

scanf ("%f", &x2);

printf ("input y2: ");

```

scanf("%f", &y2);
distance = ((x2-x1)*(x2-x1)) + ((y2-y1)*(y2-y1));
printf("distance between the said points: %.4f", sqrt
(distance));
printf("\n");
return 0;
}

```

3) #include <stdio.h>

```
int main()
```

```
{
```

```
float side1, side2, side3, perimeter;
```

```
printf("\n input the first number: ");
```

```
scanf("%f", &side1);
```

```
printf("\n input the second number: ");
```

```
scanf("%f", &side2);
```

```
printf("\n input the third number: ");
```

```
scanf("%f", &side3);
```

```
if (side1 < (side2 + side3) && side2 < (side1 + side3) && side3
< (side2 + side1))
```

```
{
```

```
p = side1 + side2 + side3;
```

```
printf("Triangle can be created with these
values.");
```

```
printf("\n perimeter = %.4f", perimeter);
```

```
}
```

```
else
```

```
{
```

```
printf("Not possible to create a triangle
with these values.");
```

```
}
```

```
return 0;
```

```
}
```

```
4) #include <stdio.h>
```

```
int main()
```

```
{
```

```
int age;
```

```
int baby_count = 0, school_count = 0, adult_count = 0;
```

```
int count = 0;
```

```
while (count < 20)
```

```
{
```

```
printf ("Enter age of person [%d]: ", count+1);  
scanf ("%d", &age);
```

```
if (age >= 0 && age <= 5)
```

```
    baby_count ++;
```

```
else if (age >= 6 && age <= 17)
```

```
    school_count ++;
```

```
else
```

```
    adult_count ++;
```

```
// increase counter
```

```
count ++;
```

```
}
```

```
printf ("Baby age: %d\n", baby_count);
```

```
printf ("School age: %d\n", school_count);
```

```
printf ("Adult age: %d\n", adult_count);
```

```
return 0;
```

```
}
```

```
5) #include <stdio.h>
#include <stdlib.h>
#include <time.h>
```

```
int main ()
```

```
{
```

```
int random_num = 0, count = 0, num;
```

```
int store;
```

```
long time;
```

```
// initialise srand with current time, to get random numbers on every run
```

```
time = time (NULL);
```

```
srand = (unsigned) (time/2);
```

```
srand (srand);
```

```
// generate random number
```

```
random_num = rand () % 100;
```

```
// run infinite loop
```

```
while (1)
```

```
{
```

```
    // increase counter
```

```
    count + = 1;
```

```
    // read number from user
```

```
    printf ("Enter a number from (0 to 100). ");
```

```
    scanf ("%d", &num);
```

```
    // compare guessed number with random number
```

```
    if (random_num == num) {
```

```
        printf ("Correct!! You have guessed a correct number."); break;
```

```
    } else if (random_num < num) {
```

```
        printf ("Random number is less than guessed number, try again.");
```

```
    } else if (random_num > num) {
```

```
        printf ("Random number is greater than guessed number, try again.");
```

```
    } if (count == 7) {
```

```
        printf ("### Maximum limit of attempt finished, bad luck !!!\n");
```

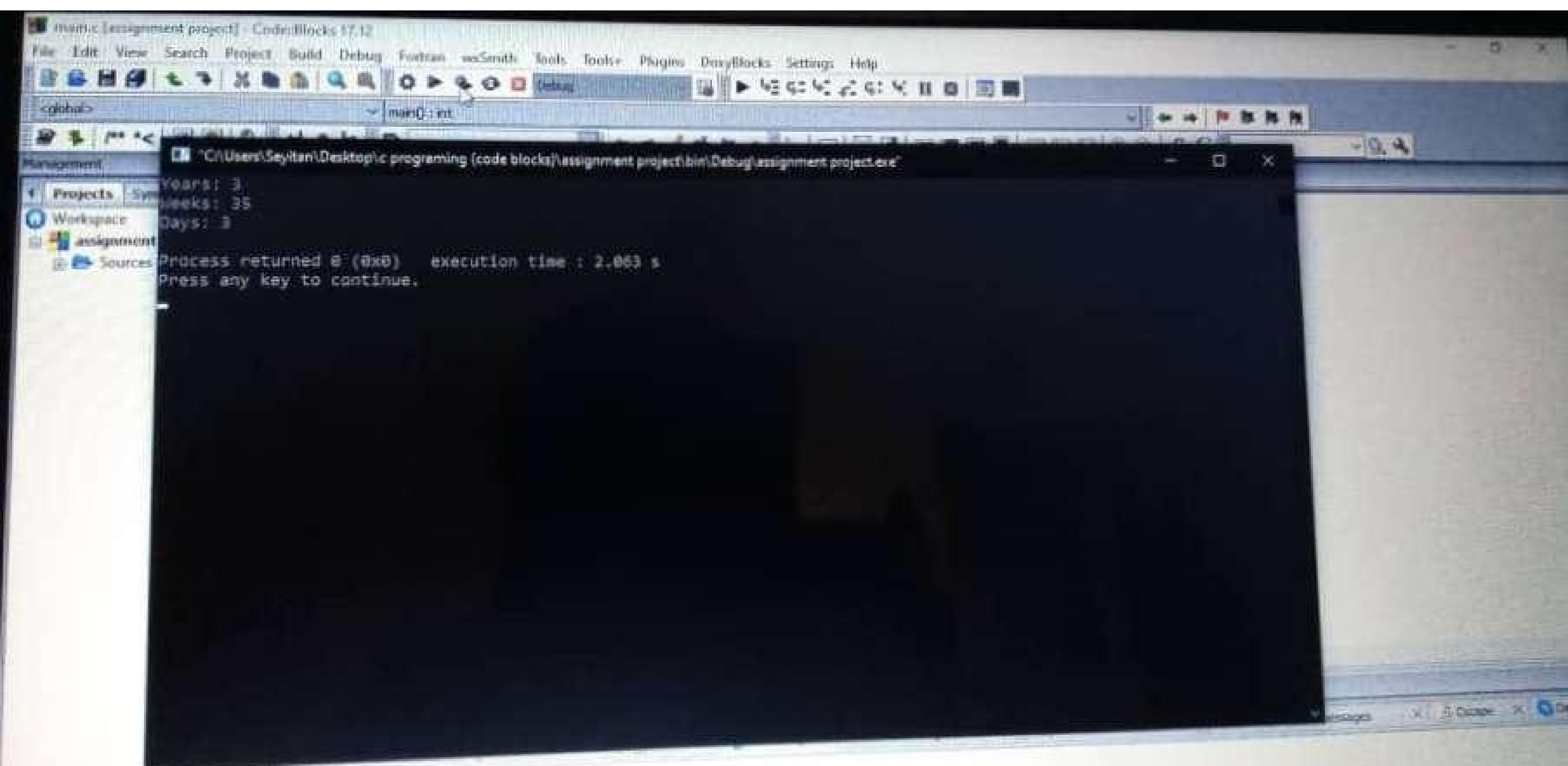
break;

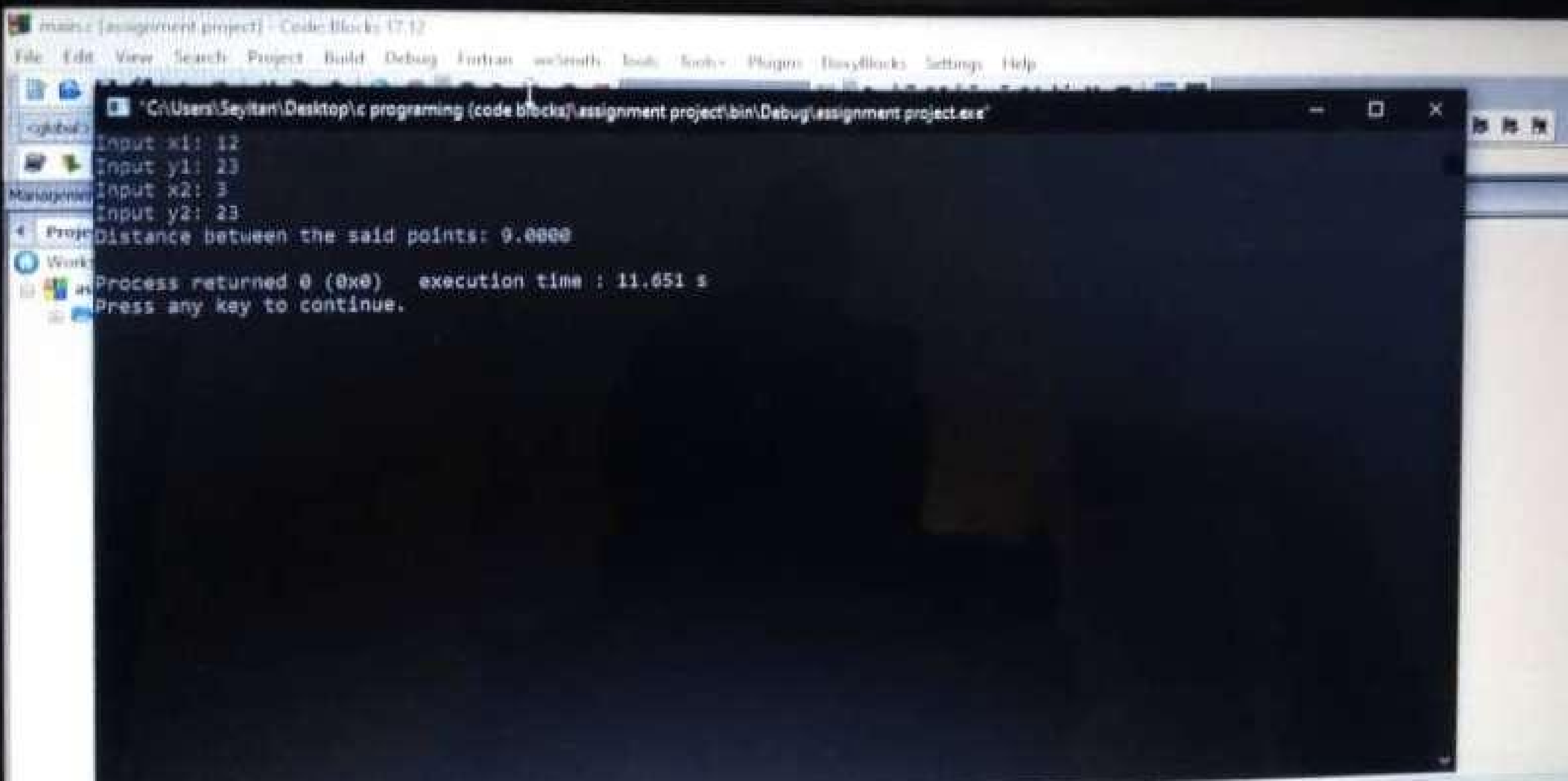
}

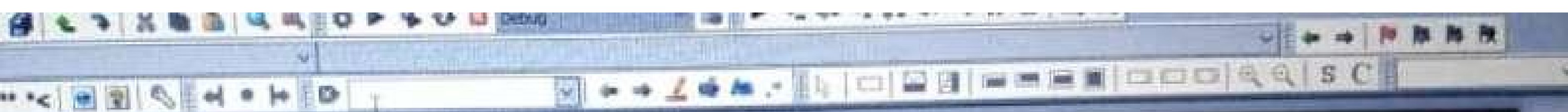
}

return 0;

}







```
"C:\Users\Seyitan\Desktop\c programming (code blocks)\assignment project\bin\Debug\assignment project.exe"
Input the first number: 5
Input the second number: 7
Input the third number: 3
Triangle can be created with these values
Perimeter = 15.0

Process returned 0 (0x0)   execution time : 7.193 s
Press any key to continue.
```

----- Run: Debug in assignment project (Debug) (x86 GCC Debug) -----
----- "C:\Users\Seyitan\Desktop\c programming (code blocks)\assignment project\bin\Debug\assignment project.exe" -----

File View Search Project Build Debug Fortran as/asmh Tools Run/Plugins Download Settings Help

"C:\Users\Seyitan\Desktop\c programming (code blocks)\assignment project\bin\Debug\assignment project.exe"

```
Enter age of person [1]: 54
Enter age of person [2]: 14
Enter age of person [3]: 2
Enter age of person [4]: 32
Enter age of person [5]: 4
Enter age of person [6]: 4
Enter age of person [7]: 5
Enter age of person [8]: 1
Enter age of person [9]: 0
Enter age of person [10]: 8
Enter age of person [11]: 6
Enter age of person [12]: 6
Enter age of person [13]: 54
Enter age of person [14]: 54
Enter age of person [15]: 45
Enter age of person [16]: 43
Enter age of person [17]: 87
Enter age of person [18]: 17
Enter age of person [19]: 19
Enter age of person [20]: 20
```

Baby age: 6

School age: 5

Adult age: 9

Process returned 0 (0x0) execution time : 24.244 s

Press any key to continue.

```
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Sources

"C:\Users\Seyitan\Desktop\c programming (code blocks)\assignment project\bin\Debug\assignment project.exe"

Guess a number from (0 to 100): 70
Random number is greater than guessed number, try again.

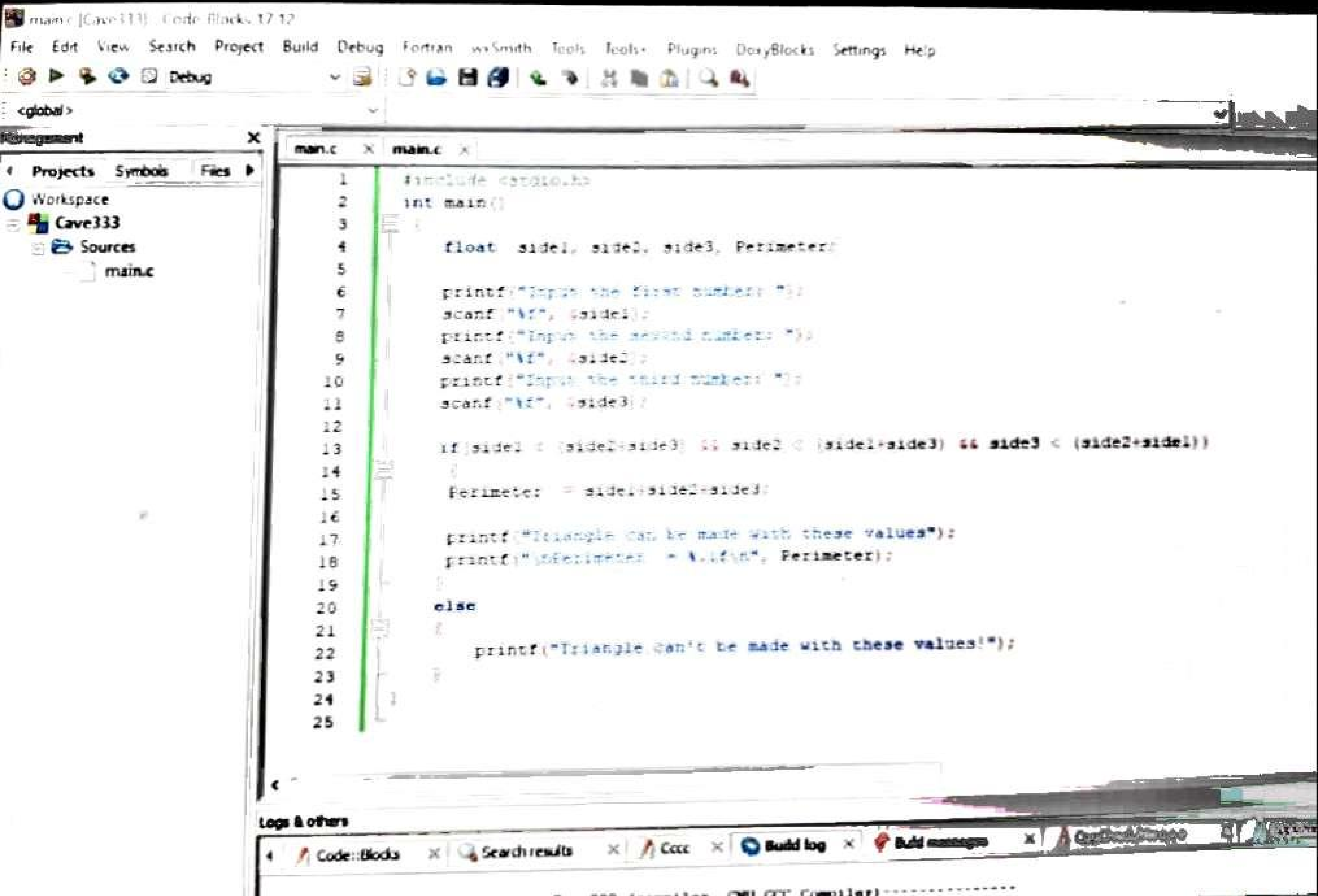
Guess a number from (0 to 100): 80
Random number is greater than guessed number, try again.

Guess a number from (0 to 100): 90
Random number is less than guessed number, try again.

Guess a number from (0 to 100): 85
Random number is less than guessed number, try again.

Guess a number from (0 to 100): 82
Random number is less than guessed number, try again.

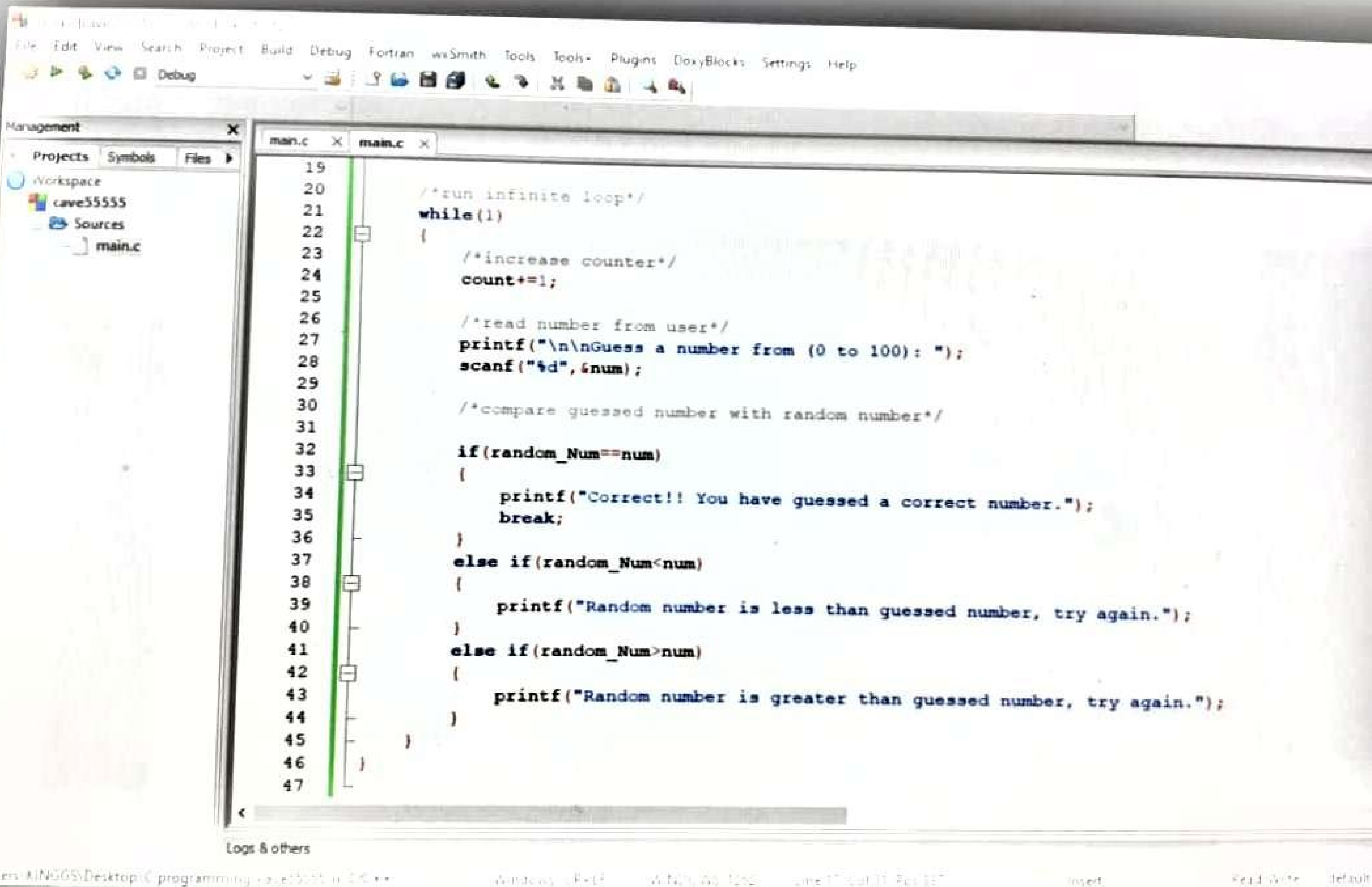
Guess a number from (0 to 100): 81
Correct!! You have guessed a correct number.
Process returned 0 (0x0)   execution time : 48.722 s
Press any key to continue.
_
```



```
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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    /*initialise 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++;
25
26        /*read number from user*/
27        printf("\n\nGuess a number from (0 to 100): ");
28        scanf("%d",&num);
29
30    }
31
32    return 0;
33 }
```

I

Logs & others



Start here X main.c X

```
1 #include <stdio.h>
2 int main()
3 {
4     int days, years, weeks;
5
6     days = 1343;
7
8     // Converts days to years, weeks and days
9     years = days/365;
10    weeks = (days % 365)/7;
11    days = days - ((years*365) + (weeks*7));
12
13    printf("Years: %d\n", years);
14    printf("Weeks: %d\n", weeks);
15    printf("Days: %d \n", days);
16
17    return 0;
18 }
19
```

I

```
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 person [%d]: ", 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
```

art here × main.c ×

```
1  #include <stdio.h>
2  #include <math.h>
3
4  int main() {
5      float x1, y1, x2, y2, distance;
6      printf("Input x1: ");
7      scanf("%f", &x1);
8      printf("Input y1: ");
9      scanf("%f", &y1);
10     printf("Input x2: ");
11     scanf("%f", &x2);
12     printf("Input y2: ");
13     scanf("%f", &y2);
14     distance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
15     printf("Distance between the said points: %.4f", sqrt(distance));
16     printf("\n");
17     return 0;
18 }
19
```

I

s & others
Code::Blocks × Search results × Cccc × Build log × Build messages × CppCheck/Vera++

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