

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));
```

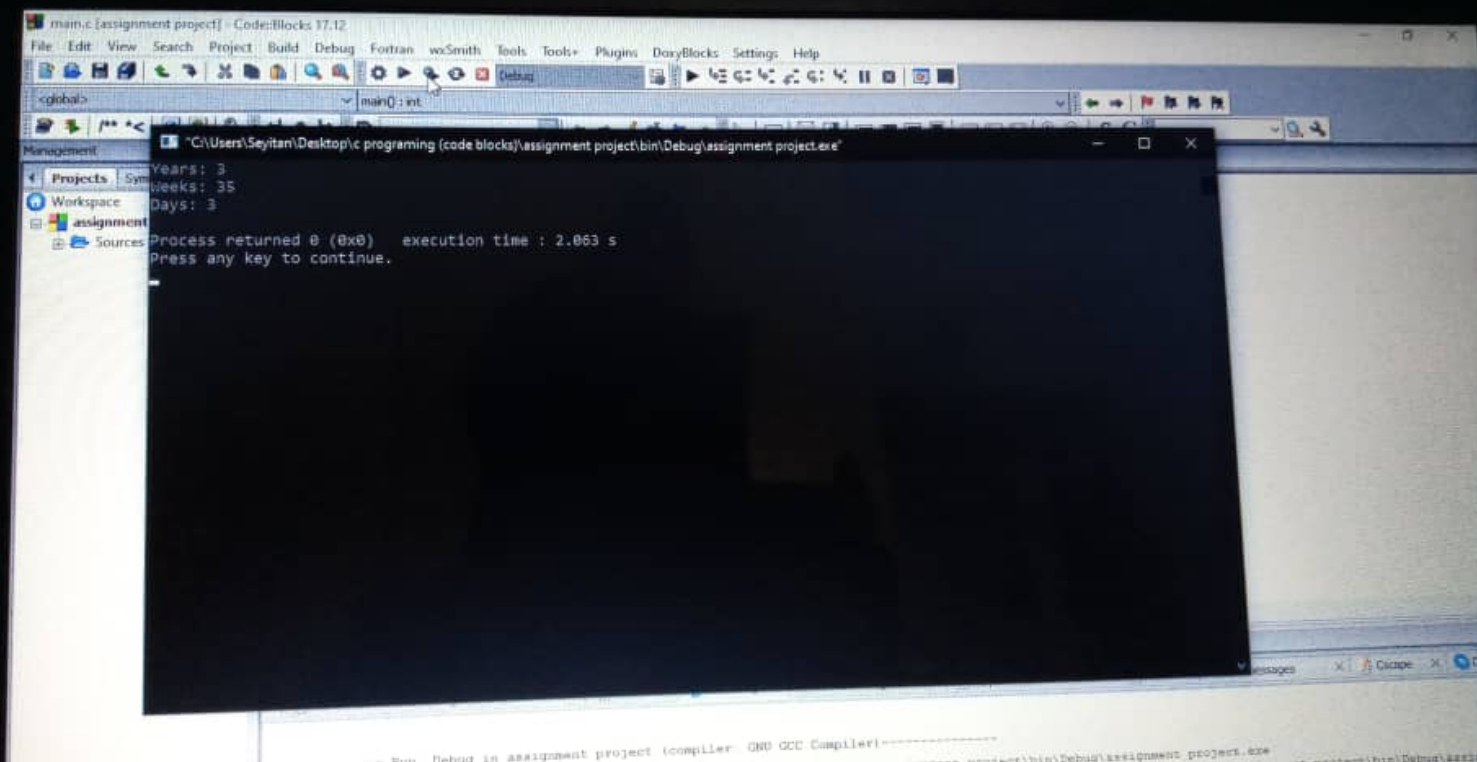
```
    printf("Years: %d\n", years);
```

```
    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;
```

```
}
```

```
main.c [assignment project] - Code::Blocks 17.12
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"C:\Users\Seyitan\Desktop\c programming (code blocks)\assignment project\bin\Debug\assignment project.exe"
Input x1: 12
Input y1: 23
Input x2: 3
Input y2: 23
Distance between the said points: 9.0000
Process returned 0 (0x0)   execution time : 11.651 s
Press any key to continue.
```

3.

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

```
int main() {
```

```
    float side1, side2, side3, Perimeter;
```

```
    printf("\nInput the first number: ");
```

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

```
    printf("\nInput the second number: ");
```

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

```
    printf("\nInput the third number: ");
```

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

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

```
    {
```

```
        Perimeter = side1+side2+side3;
```

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

```
        printf("\nPerimeter = %.1f\n", Perimeter);
```

```
    }
```

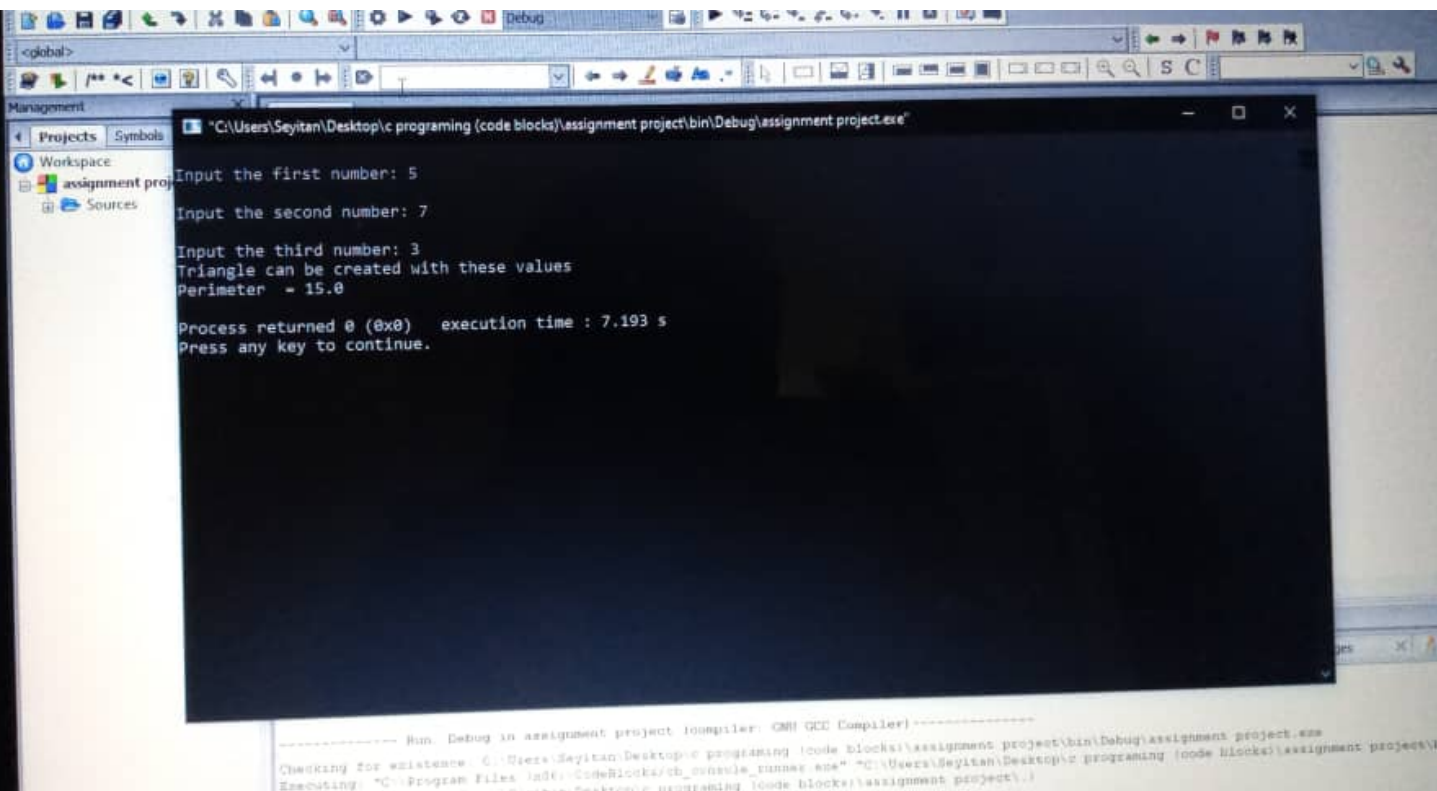
```
    else
```

```
    {
```

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

```
    }
```

```
}
```



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;
}
```

main.c [assignment project] - Code::Blocks 17.12

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"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.
```

Logs & others

Code::Blocks

Generate Project

Code

Build log

Build messages

CppCheck/Veri++

CppCheck/Veri++ messages

5.

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main()
{
    int random_Num=0,count=0,num;
    int stime;
    long ltime;
    //initialise srand with current time, to get random number on every run
    ltime = time(NULL);
    stime = (unsigned) ltime/2;
    srand(stime);
    //generate random number
    random_Num=rand()%100;
    //run infinite loop
    while(1)
    {
        //increase counter
        count+=1;
        //read number from user
        printf("\n\nGuess 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("\n\n### Maximum limit of attempt finished, BAD LUCK !!!\n");  
    break;  
}  
}  
return 0;  
}
```

```
Projects Symbols "C:\Users\Seyitan\Desktop\c programming (code blocks)\assignment project\bin\Debug\assignment project.exe"
Workspace
assignment proj
Sources
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.
----- (g++ (gcc) Compiler) -----
```