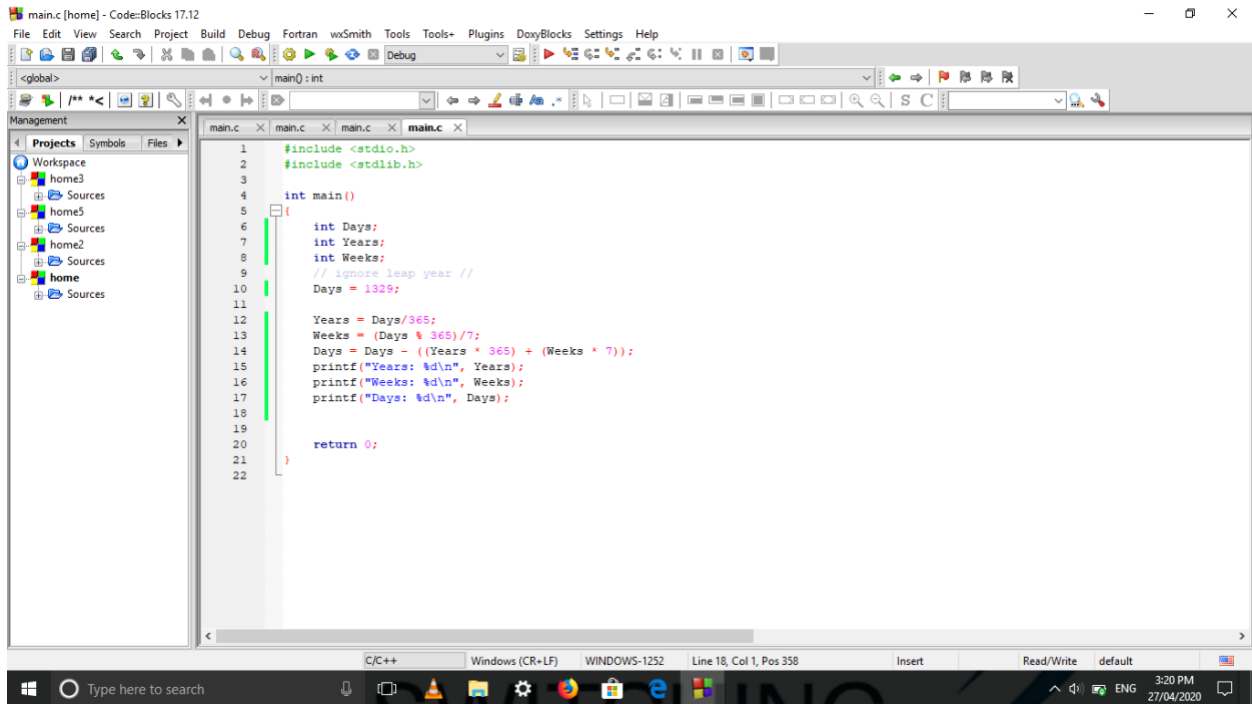
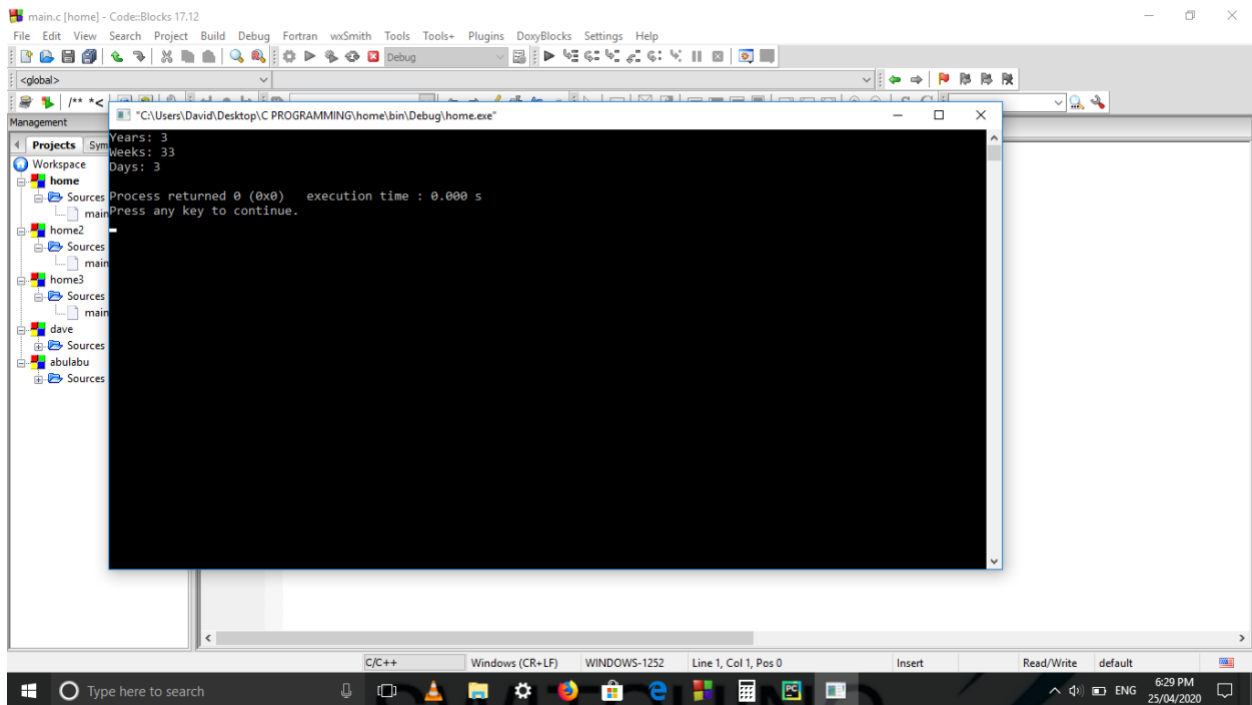


PROGRAMMING ASSIGNMENT



```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     int Days;
7     int Years;
8     int Weeks;
9     // ignore leap year //
10    Days = 1329;
11
12    Years = Days/365;
13    Weeks = (Days % 365)/7;
14    Days = Days - ((Years * 365) + (Weeks * 7));
15    printf("Years: %d\n", Years);
16    printf("Weeks: %d\n", Weeks);
17    printf("Days: %d\n", Days);
18
19
20    return 0;
21 }
22
```



```
Years: 3
Weeks: 33
Days: 3
Process returned 0 (0x0)   execution time : 0.000 s
Press any key to continue.
```

```
1  lude <stdio.h>
2  lude <stdlib.h>
3
4  main()
5  {
6      double x1, y1, x2, y2, Distance;
7      printf("Input x1: ");
8      scanf("%lf", &x1);
9      printf("Input y1: ");
10     scanf("%lf", &y1);
11     printf("Input x2: ");
12     scanf("%lf", &x2);
13     printf("Input y2: ");
14     scanf("%lf", &y2);
15     Distance = ((x2 - x1)*(x2 - x1) + ((y2 - y1)*(y2 - y1)));
16     printf("The Distance between two points are: %lf\n", sqrt(Distance));
17
18     return 0;
19
20 }
```

```
Input x1: 4
Input y1: 5
Input x2: 7
Input y2: 8
The Distance between two points are: 4.242641

Process returned 0 (0x0)   execution time : 4.837 s
Press any key to continue.
```

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     float x, y, z, P;
7     printf("Enter x: ");
8     scanf("%f", &x);
9     printf("Enter y: ");
10    scanf("%f", &y);
11    printf("Enter z: ");
12    scanf("%f", &z);
13    if (x < (y + z) && y < (z + x) && z < (x + y)) {
14        P = x + y + z;
15        printf("Perimeter of triangle: %f\n", P);
16    } else {
17        printf("Not Possible");
18    }
19
20
21    return 0;
22 }
23
```

```
Enter x: 5
Enter y: 6
Enter z: 7
Perimeter of triangle: 18.000000
Process returned 0 (0x0) execution time : 4.698 s
Press any key to continue.
```

```
main.c [HOME4] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools- Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Workspace
  home3
  Sources
  home5
  Sources
  home2
  Sources
  main.c
  home
  Sources
  HOME4
  Sources
3
4 int main()
5 {
6     int age;
7     int theAge = 0;
8     int babyAge = 0, AttendingSchool = 0, AdultLifeAge = 0;
9     while(theAge < 20){
10        printf("Enter the age number : ", theAge++);
11        scanf("%d", &age);
12        if(age >= 0 && age <= 4){
13            babyAge++;
14
15
16
17        }else if (age >= 5 && age <= 17){
18            AttendingSchool++;
19
20
21        }else{
22            AdultLifeAge++;
23
24
25        }
26        theAge++;
27    }
28    printf("Baby Age: %d\n", babyAge);
29    printf("Attending School Age: %d\n", AttendingSchool);
30    printf("Adult Age : %d\n", AdultLifeAge);
31    return 0;
32 }
33
C:\Users\David\Desktop\C PROGRAMMING\HOME4\main.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 7, Col 12, Pos 83 Insert Read/Write default 3:22 PM 27/04/2020
```

```
main.c [HOME4] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools- Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Workspace
  HOME4
  Sources
  "C:\Users\David\Desktop\C PROGRAMMING\HOME4\bin\Debug\HOME4.exe"
Enter the age number : 5
Enter the age number : 2
Enter the age number : 3
Enter the age number : 4
Enter the age number : 89
Enter the age number : 67
Enter the age number : 5
Enter the age number : 6
Enter the age number : 7
Enter the age number : 8
Baby Age: 3
Attending School Age: 5
Adult Age : 2
Process returned 0 (0x0) execution time : 11.955 s
Press any key to continue.
Build and run the active project C/C++ Windows (CR+LF) WINDOWS-1252 Line 14, Col 1, Pos 327 Insert Read/Write default 11:02 PM 26/04/2020
```

```
main.c [home5] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools- Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Workspace
Projects
Sources
main.c
Sources
main.c
Sources
main.c
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <time.h>
4
5
6 int main()
7 {
8
9     int RandomNumber = 0;
10    int guessCount = 0;
11    int guessLimit = 7;
12    int Guess;
13    srand(time(NULL));
14    RandomNumber = rand() % 100;
15    while (guessCount < guessLimit){
16        printf("Enter a random number from(0 to 100): ");
17        scanf("%d", &Guess);
18        if (RandomNumber == Guess){
19            printf("User got the number: %d\n", Guess);
20
21        }else if (Guess < RandomNumber){
22            printf("The number you entered is less than the random number: %d\n", Guess);
23        }else if (Guess > RandomNumber){
24            printf("The number you entered is greater than the random number: %d\n", Guess);
25        }
26        guessCount++;
27    }
28
29    return 0;
30 }
31
```

```
main.c [home5] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools- Plugins DoxyBlocks Settings Help
"\"C:\Users\David\Desktop\C PROGRAMMING\home5\bin\Debug\home5.exe\"
Enter a random number from(0 to 100): 90
The number you entered is greater than the random number: 90
Enter a random number from(0 to 100): 89
The number you entered is greater than the random number: 89
Enter a random number from(0 to 100): 7
The number you entered is less than the random number: 7
Enter a random number from(0 to 100): 78
The number you entered is greater than the random number: 78
Enter a random number from(0 to 100): 78
The number you entered is greater than the random number: 78
Enter a random number from(0 to 100): 90
The number you entered is greater than the random number: 90
Enter a random number from(0 to 100): 78
The number you entered is greater than the random number: 78
Process returned 0 (0x0) execution time : 10.173 s
Press any key to continue.
25
26     guessCount++;
27 }
28
29    return 0;
30 }
31
```