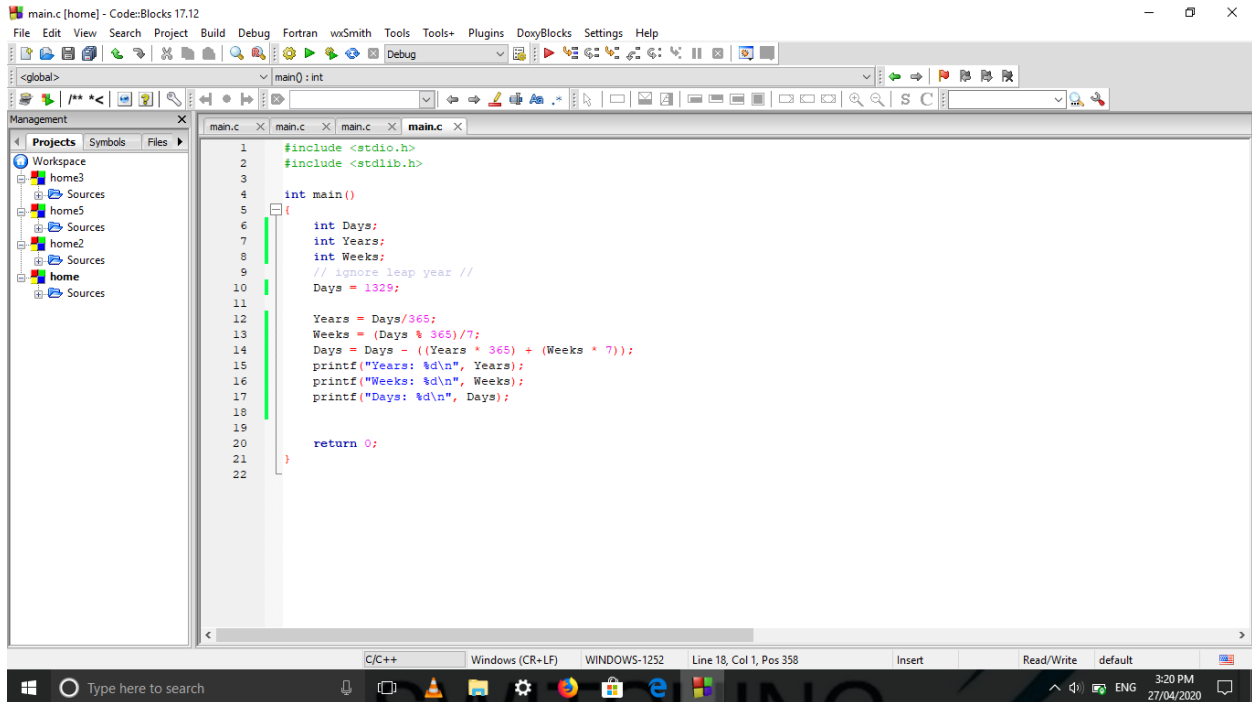


NAME: IHECHERE CHIZIMUZO ARNOLD

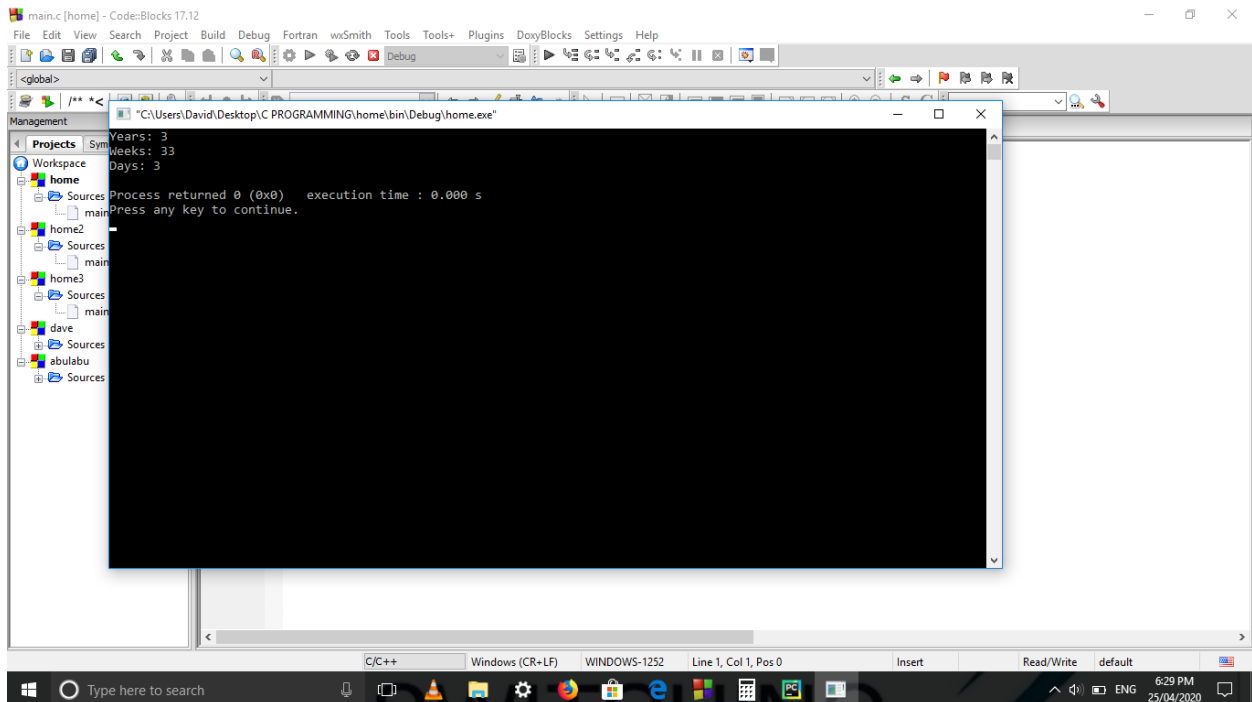
MATRIC NUMBER: 18/ENG02/046

DEPARTMENT: COMPUTER ENGINEERING

C 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
```



```
"C:\Users\David\Desktop\C PROGRAMMING\home\bin\Debug\home.exe"
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
```

Management

- Workspace
 - home3
 - Sources
 - home5
 - Sources
 - home2
 - Sources
 - home
 - main.c

C:\Users\David\Desktop\C PROGRAMMING\home2\main.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 16, Col 48, Pos 410 Insert Modified Read/Write default 3:20 PM 27/04/2020

```
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.
```

Management

- Workspace
 - home
 - Sources
 - home2
 - Sources
 - home3
 - Sources
 - dave
 - Sources
 - abulabu
 - Sources

Build and run the active project C/C++ Windows (CR+LF) WINDOWS-1252 Line 11, Col 26, Pos 226 Insert Read/Write default 6:29 PM 25/04/2020

```
*main.c [home3] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DovyBlocks Settings Help
<global>
main() : int
Management
Projects Symbols Files
Workspace
home
Sources
main.c
home2
Sources
main.c
home3
Sources
main.c
dave
Sources
abulabu
Sources
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
```

C:\Users\David\Desktop\C PROGRAMMING\home3\main.c C/C++ Windows (CR-LF) WINDOWS-1252 Line 15, Col 34, Pos 327 Insert Modified Read/Write default 6:30 PM 25/04/2020

```
main.c [home3] - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DovyBlocks Settings Help
<global>
main() : int
Management
Projects Symbols Files
Workspace
home
Sources
main.c
home2
Sources
main.c
home3
Sources
main.c
dave
Sources
abulabu
Sources
Process returned 0 (0x0) execution time : 4.698 s
Press any key to continue.
Enter x: 5
Enter y: 6
Enter z: 7
Perimeter of triangle: 18.000000
```

C:\Users\David\Desktop\C PROGRAMMING\home3\main.c C/C++ Windows (CR-LF) WINDOWS-1252 Line 15, Col 34, Pos 327 Insert Read/Write default 6:30 PM 25/04/2020

```
3 int main()
4 {
5     int age;
6     int theAge = 0;
7     int babyAge = 0, AttendingSchool = 0, AdultLifeAge = 0;
8     while(theAge < 20){
9         printf("Enter the age number : ", theAge++);
10        scanf("%d", &age);
11        if(age >= 0 && age <= 4){
12            babyAge++;
13
14
15
16
17        }else if (age >= 5 && age <= 17){
18            AttendingSchool++;
19
20
21
22        }else{
23            AdultLifeAge++;
24
25
26        }
27        theAge++;
28    }
29    printf("Baby Age: %d\n", babyAge);
30    printf("Attending School Age: %d\n", AttendingSchool);
31    printf("Adult Age : %d\n", AdultLifeAge);
32    return 0;
33 }
```

```
"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.
```

```
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
  Sources
    main.c
  home5
    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
```