

Name: Egbuwe Kelvin Olamide

Matric Number: 18/ENG04/029

Department: Electrical and Electronics Engineering

Course code: ENG224

Course title: Structured Computer Programming

```
1) #include <stdio.h>
#include <stdlib.h>

int main()
{
    int d,y,w;

    d = 1343;

    y = d/365;
    d = d%365;
    w = d/7;
    d = d%7;
    printf(" %d Year(s) \n %d Week(s) \n %d Day(s)", y, w, d);
    return 0;
}
```

```
2)#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
{

    float x1,x2,y1,y2,distance,distancesquare;
```

```

printf("Enter value of x1: ");
scanf ("%f",&x1);
printf ("Enter value of y1: ");
scanf ("%f",&y1);
printf ("Enter value of x2: ");
scanf ("%f",&x2);
printf ("Enter value of y2: ");
scanf ("%f",&y2);
distancesquare = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
printf("Distance between the two points: %.4f", sqrt(distancesquare));

return 0;
}

```

3)#include <stdio.h>

#include <stdlib.h>

int main()

{

float x,y,z,P,A;

printf("\nInput the first value: ");

scanf("%f", &x);

printf("\nInput the second value: ");

scanf("%f", &y);

printf("\nInput the third value: ");

scanf("%f", &z);

if(x <(y+z) && y< (x+z) && z < (y+z))

```
{
    P=x+y+z;
    printf("\nPerimeter =%.lf\n",P);
}
else
{
    printf("Not possible to create a triangle..!");
}

return 0;
}
```

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

```
#include <stdlib.h>
```

```
int main()
```

```
{
```

```
    int age;
```

```
    int cnt_baby=0,cnt_school=0,cnt_adult=0;
```

```
    int count=0;
```

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

```
    {
```

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

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

```
        if(age>=0 && age<=4)
```

```
            cnt_baby ++;
```

```
        else if(age>=5 && age<=17)
```

```

        cnt_school ++;
    else
        cnt_adult ++;
        count ++;

}
printf("Baby age:%d\n",cnt_baby);
printf("School age:%d\n",cnt_school);
printf("Adult age:%d\n",cnt_adult);
return 0;
}
5)#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main()
{
    int random_NO=0,count=0,num;
    int stime;
    long ltime;
    ltime = time(NULL);
    stime = (unsigned) ltime/2;
    srand(stime);
    random_NO = rand()%100;
    while(1)
    {
        count +=1;
        printf("\n\n Guess a number from 0 to 100:");
        scanf("%d",&num);
        if(random_NO==num){

```

```
    printf("Congratulations, you have guessed a correct number");
    break;
}
else if(random_NO>num){
    printf("Generated number is higher than entered number,try again");
}
else if(random_NO<num){
    printf("Generated number is less than entered number, try again");
}

if(count==7){
    printf("\n\n### Maximum limit of attempt finished, Bad luck!!!! \n");
    break;
}
}
return 0;
}
```

File Edit Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here x main.c x

```
"C:\Users\HP PC\Documents\C-program\Egbuwe Kelvin Olamide 18-ENG04-029\main.exe"
Year(s)
Week(s)
Day(s)
Process returned 0 (0x0)   execution time : 0.062 s
Press any key to continue.
```

(x86)\Microsoft Visual Studio\VC98\Bin;C:\Users\HP PC\AppData\Local\Microsoft\WindowsApps;.;C:\Users\HP PC\AppData\Local\Programs\Microsoft

C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write



File Edit Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help



Start here x main.c x

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     int d,y,w;
7
8     d = 1343;
9
10    y = d/365;
11    d = d%365;
12    w = d/7;
13    d = d%7;
14    printf(" %d Year(s) \n %d Week(s) \n %d Day(s)", y, w, d);
15    return 0;
16 }
17
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x

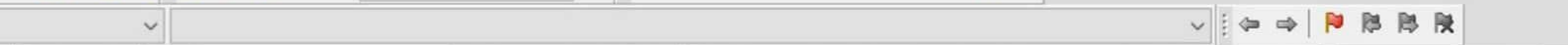
```
Set variable: PATH=C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\CodeBlocks\MinGW;C:\Windows\System32;C:\Windows;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\MATLAB\R2018a\runtime\win64;C:\Program Files\MATLAB\R2018a\bin\win64;C:\Program Files (x86)\Microsoft Visual Studio\Tools\WinNT;C:\Program Files (x86)\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Program Files (x86)\Microsoft Visual Studio\Common\Tools\bin;C:\Program Files (x86)\Microsoft Visual Studio\VC98\Bin;C:\Users\HP_PC\AppData\Local\Microsoft\WindowsApps;C:\Users\HP_PC\AppData\Local\Programs\Microsoft...
```

Process terminated with status -1073741510 (0 minute(s), 8 second(s))

gram\Egbuwe Kelvin Olamide 18-ENG04-029\main.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write



File Edit View Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help



Start here x main.c x

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <math.h>
4 int main()
5 {
6
7     float x1,x2,y1,y2,distance,distancesquare;
8     printf("Enter value of x1: ");
9     scanf ("%f",&x1);
10    printf ("Enter value of y1: ");
11    scanf ("%f",&y1);
12    printf ("Enter value of x2: ");
13    scanf ("%f",&x2);
14    printf ("Enter value of y2: ");
15    scanf ("%f",&y2);
16    distancesquare = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
17    printf("Distance between the two points: %.4f", sqrt(distancesquare));
18
19    return 0;
20 }
21
```

Logs & others

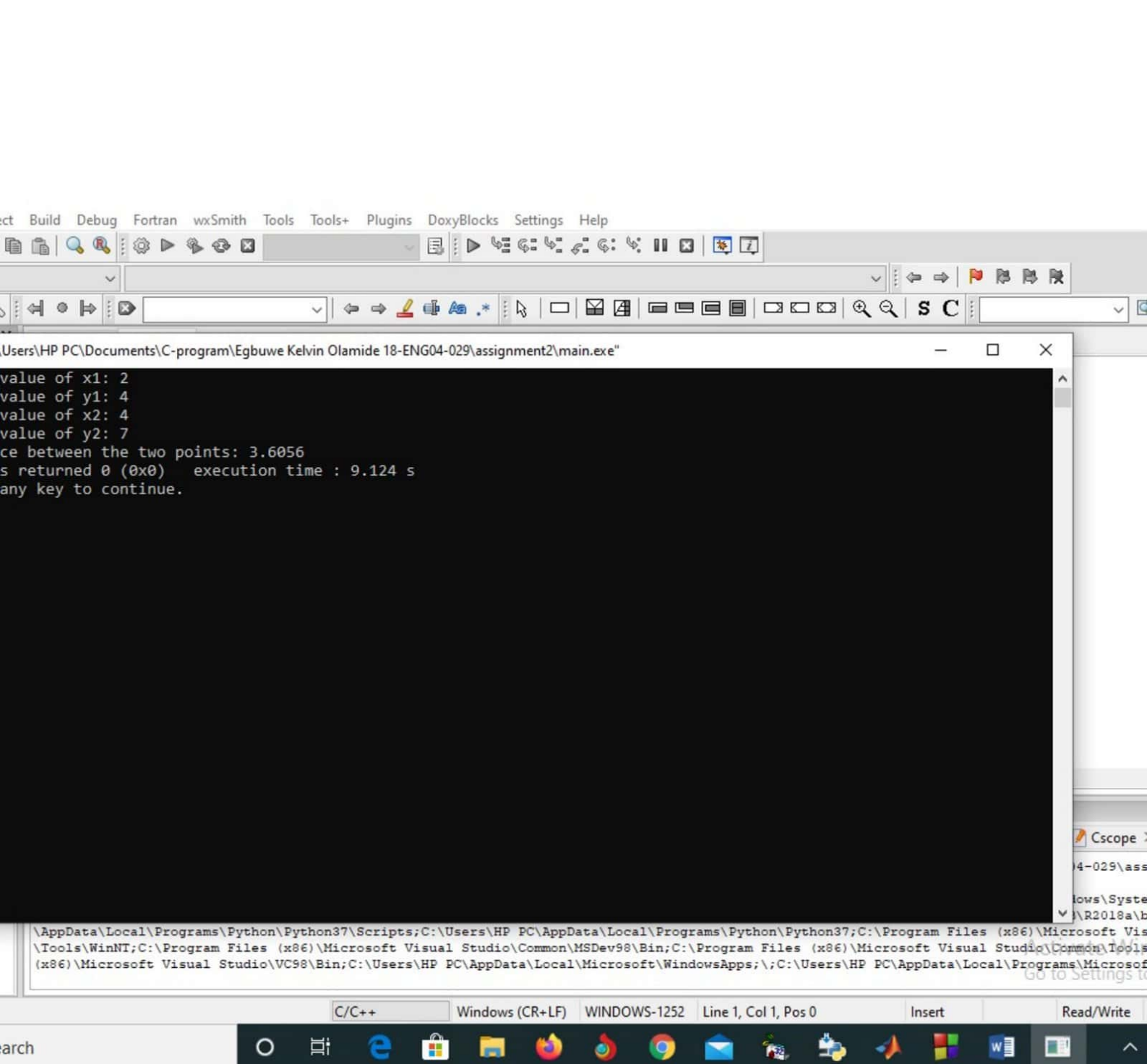
Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x

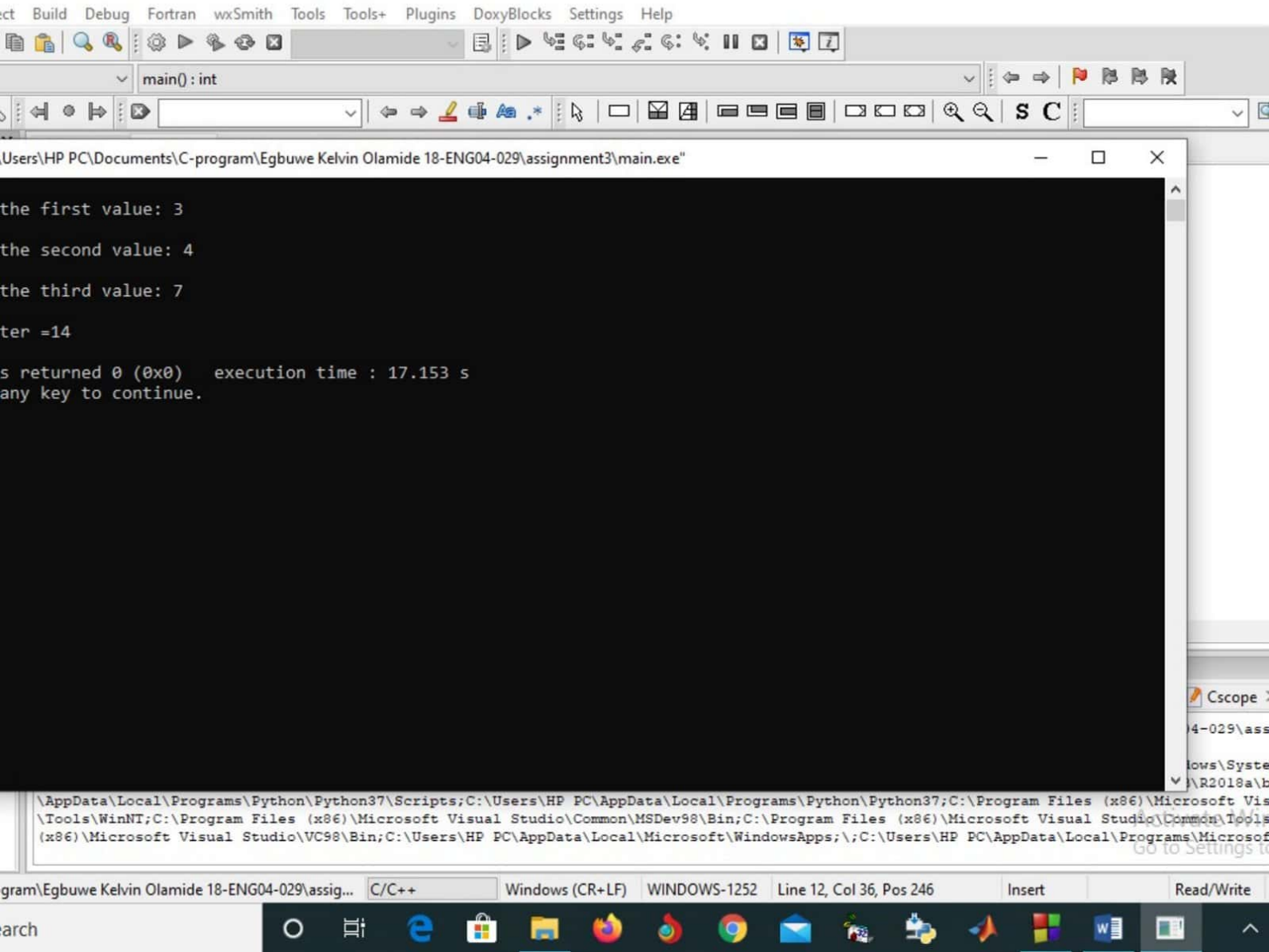
Activate Windows  
Go to Settings to activate Windows.

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig... C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write









File Edit Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help



main(): int



```
Start here x main.c x
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6
7      float x,y,z,P,A;
8      printf("\nInput the first value: ");
9      scanf("%f", &x);
10     printf("\nInput the second value: ");
11     scanf("%f", &y);
12     printf("\nInput the third value: ");
13     scanf("%f", &z);
14
15     if(x < (y+z) && y < (x+z) && z < (y+z))
16     {
17         P=x+y+z;
18         printf("\nPerimeter =%.1f\n",P);
19     }
20     else
21     {
```

Logs & others

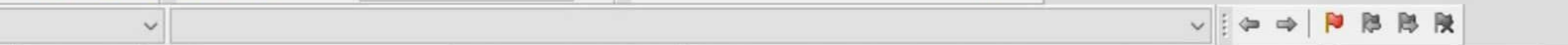
Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x

```
Set variable: PATH=C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\CodeBlocks\MinGW;C:\Windows\System32;C:\Windows;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\MATLAB\R2018a\runtime\win64;C:\Program Files\MATLAB\R2018a\bin\win64;C:\Program Files\Python\Python37\Scripts;C:\Users\HP_PC\AppData\Local\Programs\Python\Python37;C:\Program Files (x86)\Microsoft Visual Studio\WinNT;C:\Program Files (x86)\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Program Files (x86)\Microsoft Visual Studio\Common\Tools\Bin;C:\Users\HP_PC\AppData\Local\Microsoft\WindowsApps;C:\Users\HP_PC\AppData\Local\Programs\Microsoft
Process terminated with status 0 (0 minute(s), 24 second(s))
```

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig... C/C++ Windows (CR+LF) WINDOWS-1252 Line 12, Col 36, Pos 246 Insert Read/Write



ect Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help



Start here X main.c X

```
8 printf("\nInput the first value: ");
9 scanf("%f", &x);
10 printf("\nInput the second value: ");
11 scanf("%f", &y);
12 printf("\nInput the third value: ");
13 scanf("%f", &z);
14
15 if(x < (y+z) && y < (x+z) && z < (y+z))
16 {
17     P=x+y+z;
18     printf("\nPerimeter =%.1f\n", P);
19 }
20 else
21 {
22     printf("Not possible to create a triangle..!");
23 }
24
25 return 0;
26 }
27
```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Vera++ X CppCheck/Vera++ messages X Cscope X

Activate Win  
Go to Settings to

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig...

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 1, Col 1, Pos 0

Insert

Read/Write

Search



File Edit View Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help



Start here x main.c x

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int age;
7      int cnt_baby=0,cnt_school=0,cnt_adult=0;
8      int count=0;
9
10     while (count<20)
11     {
12         printf("Enter age of person[%d]:",count+1);
13         scanf("%d", &age);
14
15         if(age>=0 && age<=4)
16             cnt_baby ++;
17         else if(age>=5 && age<=17)
18             cnt_school ++;
19         else
20             cnt_adult ++;
21         count ++;
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x

Activate Windows  
Go to Settings to activate Windows.

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig...

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 1, Col 1, Pos 0

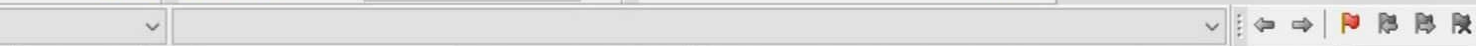
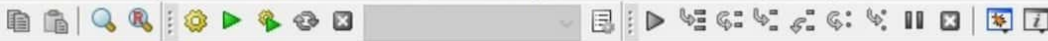
Insert

Read/Write

Search



File Edit View Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help



Start here x main.c x

```
10     while (count<20)
11     {
12         printf("Enter age of person[%d]:",count+1);
13         scanf("%d", &age);
14
15         if(age>=0 && age<=4)
16             cnt_baby ++;
17         else if(age>=5 && age<=17)
18             cnt_school ++;
19         else
20             cnt_adult ++;
21         count ++;
22
23     }
24     printf("Baby age:%d\n",cnt_baby);
25     printf("School age:%d\n",cnt_school);
26     printf("Adult age:%d\n",cnt_adult);
27     return 0;
28 }
29
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x

Activate Windows  
Go to Settings to activate Windows.

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig...

C/C++

Windows (CR+LF)

WINDOWS-1252

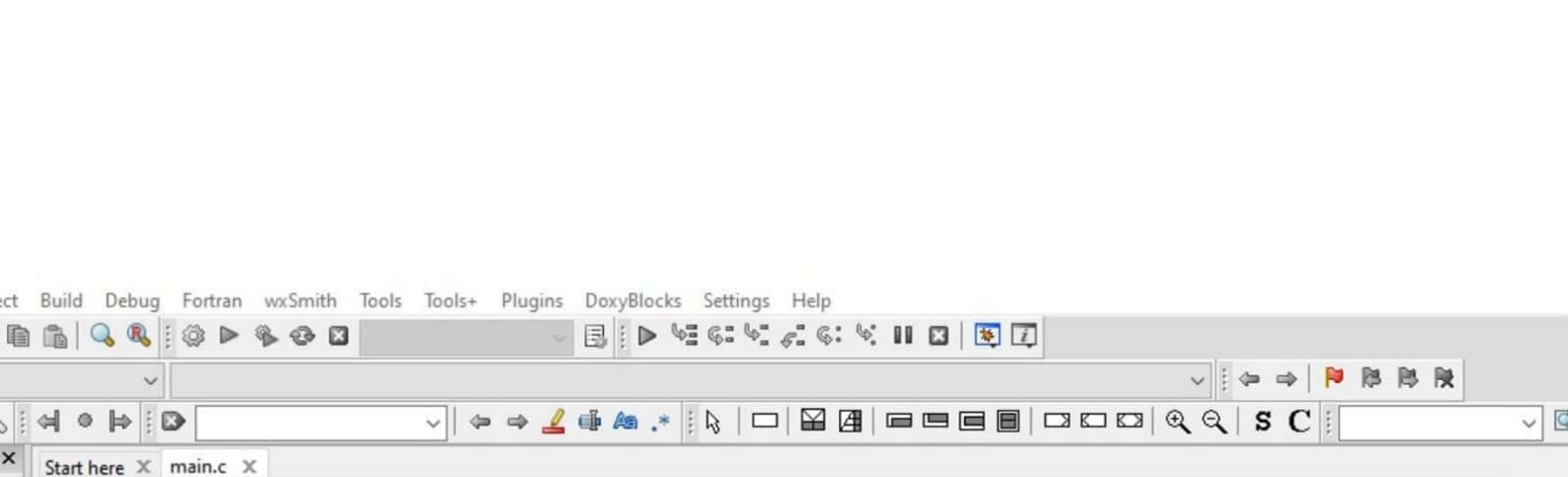
Line 1, Col 1, Pos 0

Insert

Read/Write

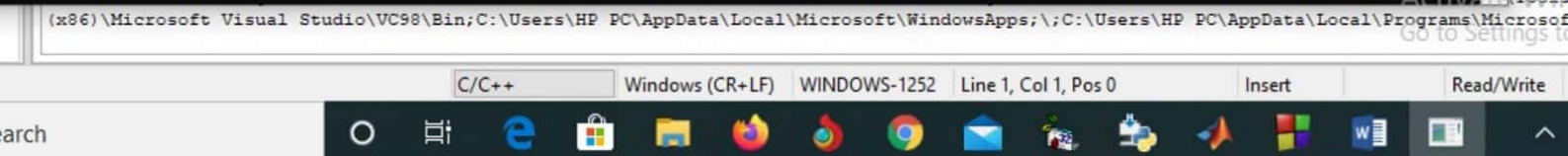
Search





```
"C:\Users\HP PC\Documents\C-program\Egbuwe Kelvin Olamide 18-ENG04-029\assignment4\main.exe"
er age of person[1]:231
er age of person[2]:1
er age of person[3]:2
er age of person[4]:3
er age of person[5]:4
er age of person[6]:4
er age of person[7]:5
er age of person[8]:67
er age of person[9]:8
er age of person[10]:675
er age of person[11]:12
er age of person[12]:131
er age of person[13]:41
er age of person[14]:12
er age of person[15]:114
er age of person[16]:15
er age of person[17]:112
er age of person[18]:2
er age of person[19]:6
er age of person[20]:7
y age:6
ool age:7
lt age:7

cess returned 0 (0x0)  execution time : 17.546 s
ss any key to continue.
```



ct Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

PC\Documents\C-program\Egbuwe Kelvin Olamide 18-ENG04-029\assignment5\main.exe"

```
per from 0 to 100:3
,try again

per from 0 to 100:43
gh, try again

per from 0 to 100:544
gh, try again

per from 0 to 100:23
gh, try again

per from 0 to 100:12
,try again

per from 0 to 100:16
,try again

per from 0 to 100:20
,try again

limit of attempt finished, Bad luck!!!!

ned 0 (0x0) execution time : 27.467 s
y to continue.
```

```
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP PC\Documents\C-program\Egbuwe Kelvin Olamide 18-ENG04-029\ass
(in 'C:\Users\HP PC\Documents\C-program\Egbuwe Kelvin Olamide 18-ENG04-029\assignment5')
Set variable: PATH=C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\CodeBlocks\MinGW;C:\Windows\System32;C:\Windows;C:\Windows\Syste
\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\MATLAB\R2018a\runtime\win64;C:\Program Files\MATLAB\R2018a\b
\AppData\Local\Programs\Python\Python37\Scripts;C:\Users\HP PC\AppData\Local\Programs\Python\Python37;C:\Program Files (x86)\Microsoft Vis
\Tools\WinNT;C:\Program Files (x86)\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Program Files (x86)\Microsoft Visual Studio\Common\Tools
(x86)\Microsoft Visual Studio\VC98\Bin;C:\Users\HP PC\AppData\Local\Microsoft\WindowsApps;C:\Users\HP PC\AppData\Local\Programs\Microsof
```

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig... C/C++ Windows (CR+LF) WINDOWS-1252 Line 26, Col 35, Pos 666 Insert Read/Write





File Edit Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help



main(): int



Start here x main.c x

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <time.h>
4  int main()
5  {
6      int random_NO=0, count=0, num;
7      int stime;
8      long ltime;
9      ltime = time(NULL);
10     stime = (unsigned) ltime/2;
11     srand(stime);
12     random_NO = rand()%100;
13     while(1)
14     {
15         count +=1;
16         printf("\n\n Guess a number from 0 to 100:");
17         scanf("%d", &num);
18         if(random_NO==num){
19             printf("Congratulations, you win, you have guessed correctlu");
20             break;
21         }
22     }
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x

```
Set variable: PATH=C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\CodeBlocks\MinGW;C:\Windows\System32;C:\Windows;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\MATLAB\R2018a\runtime\win64;C:\Program Files\MATLAB\R2018a\bin\win64;C:\Program Files\Python\Python37\Scripts;C:\Users\HP_PC\AppData\Local\Programs\Python\Python37;C:\Program Files (x86)\Microsoft Visual Studio\WinNT;C:\Program Files (x86)\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Program Files (x86)\Microsoft Visual Studio\Common\Tools\Bin;C:\Users\HP_PC\AppData\Local\Microsoft\WindowsApps;C:\Users\HP_PC\AppData\Local\Programs\Microsoft Visual Studio\WinNT;C:\Users\HP_PC\AppData\Local\Programs\Microsoft Visual Studio\Common\Tools\Bin;C:\Users\HP_PC\AppData\Local\Programs\Microsoft Visual Studio\WinNT;C:\Users\HP_PC\AppData\Local\Programs\Microsoft Visual Studio\Common\Tools\Bin
Process terminated with status 0 (0 minute(s), 43 second(s))
```

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig... C/C++ Windows (CR+LF) WINDOWS-1252 Line 26, Col 35, Pos 666 Insert Read/Write



File Edit Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

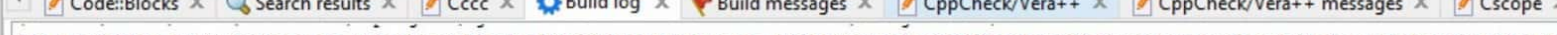


main(): int



```
Start here x main.c x
17 scanf("%d", &num);
18 if(random_NO==num){
19     printf("Congratulations, you win,you have guessed correctlu");
20     break;
21 }
22 else if(random_NO>num){
23     printf("Number is low,try again");
24 }
25 else if(random_NO<num){
26     printf("Number is high, try again");
27 }
28
29 if(count==7){
30     printf("\n\n### Maximum limit of attempt finished, Bad luck!!!! \n");
31     break;
32 }
33 }
34 return 0;
35 }
36 }
```

Logs & others



```
Set variable: PATH=C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\CodeBlocks\MinGW;C:\Windows\System32;C:\Windows;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\MATLAB\R2018a\runtime\win64;C:\Program Files\MATLAB\R2018a\bin\win64;C:\Program Files\Python\Python37\Scripts;C:\Users\HP PC\AppData\Local\Programs\Python\Python37;C:\Program Files (x86)\Microsoft Visual Studio\WinNT;C:\Program Files (x86)\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Program Files (x86)\Microsoft Visual Studio\Common\Tools\Bin;C:\Users\HP PC\AppData\Local\Microsoft\WindowsApps;C:\Users\HP PC\AppData\Local\Programs\Microsoft WindowsApps
Process terminated with status 0 (0 minute(s), 43 second(s))
```

gram\Egbuwe Kelvin Olamide 18-ENG04-029\assig... C/C++ Windows (CR+LF) WINDOWS-1252 Line 26, Col 35, Pos 666 Insert Read/Write

