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Matric Number: 17/ENG04/062

Department: Electrical Engineering

```
1) #include <iostream>
```

```
using namespace std;
```

```
int main()
{
    int y,d,w;
    d=1343;
    y=d/365;
    d=d%365;
    w=d/7;
    d=d%7;
    cout << "\n years: " <<y<< "\n weeks: " <<w<< "\n days: " <<d;
    return 0;
}
```

```
2) #include <iostream>
```

```
#include <cmath>
```

```
using namespace std;
```

```
int main()
{
    float D;
    int x, y, a, b;
    cout <<"enter point x for first co-ordinate: ";
```

```

cin >> x;
cout <<"enter point y for first co-ordinate: ";
cin >> y;
cout <<"enter point x for second co-ordinate: ";
cin >> a;
cout <<"enter point y for second co-ordinate: ";
cin >> b;
D = sqrt(((a-x)*(a-x)) +((b-y)*(b-y)));
cout << "\n Distance between two points" <<D;
return 0;
}

```

3) #include <iostream>

using namespace std;

```

int main()
{
float a=5,b=7,c=3;
if
(a+b>c || a+c>b || b+c>a){
cout << "Triangle is valid;";
} else {
cout << "Triangle is invalid;";
}
float P;
P = a+b+c;
cout << "\n Perimeter: " <<P;
return 0;
}

```

```

}
4) #include <iostream>

using namespace std;

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<=5)
            cnt_baby ++;
        else if (age>=6 && 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 <iostream>
#include <time.h>
using namespace std;

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 + 1;
    while (1)
    {
        count +=1;
        printf("\n\n Guess the number genius (0 to 100:) ");
        scanf("%d",&num);
        if (random_NO == num){
            printf("Ah you lucky bastard.");
            break;
        }
        else if (random_NO > num){
            printf("Your guess is lower, try again");
        }
        else if (random_NO < num){
            printf("Your guess is higher, try again");
        }
    }
}

```

```
if (count == 7) {  
    printf("\n\n sorry your luck has run out");  
    break;  
}  
  
return 0;  
}
```

e::Blocks 20.03

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



C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment5\bin\Debug\assignment5.exe

```
age of person{1}:1
age of person{2}:34
age of person{3}:2
age of person{4}:66
age of person{5}:443
age of person{6}:23
age of person{7}:13
age of person{8}:11
age of person{9}:125
age of person{10}:43
age of person{11}:11
age of person{12}:12
age of person{13}:3
age of person{14}:2
age of person{15}:21
age of person{16}:19
age of person{17}:1
age of person{18}:8
age of person{19}:4
age of person{20}:2
age: 7
age: 5
age: 8
```

```
s returned 0 (0x0) execution time : 35.684 s
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...
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment...
\assignment5.exe" (in C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment5\.)

gram\Otite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 1, Pos 588 Insert Read/Write



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Start here x main.cpp x

```
1  #include <iostream>
2
3  using namespace std;
4
5  int main()
6  {
7      float a=5,b=7,c=3;
8      if
9      (a+b>c || a+c>b || b+c>a){
10     cout << "Triangle is valid;";
11     } else {
12         cout << "Triangle is invalid;";
13     }
14     float P;
15     P = a+b+c;
16     cout << "\n Perimeter: " <<P;
17     return 0;
18 }
19
```

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\Orite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write



ments\C-program\Otite-Atete Peace O 17-eng04-062\assignment 3\main.exe"

```
(0x0) execution time : 2.876 s  
ntinue.
```

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  
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment 3\  
'C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment 3')  
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\br  
\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\Microsoft
```

gram\Otite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write



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Start here x main.cpp x

```
1  #include <iostream>
2  #include <time.h>
3  using namespace std;
4
5  int main()
6  {
7      int random_NO=0, count=0, num;
8      int stime;
9      long ltime;
10     ltime = time(NULL);
11     stime = (unsigned) ltime|2;
12     srand(stime);
13     random_NO = rand() % 100 + 1;
14     while (1)
15     {
16         count +=1;
17         printf("\n\n Guess the number genius (0 to 100:) ");
18         scanf("%d", &num);
19         if (random_NO == num){
20             printf("Ah you lucky bastard.");
21             break;
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

Activate Win
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gram\Otite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write



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main(): int

Start here x main.cpp x

```
18 scanf("%d", &num);
19 if (random_NO == num){
20     printf("Ah you lucky bastard.");
21     break;
22 }
23 else if (random_NO > num){
24     printf("Your guess is lower, try again");
25 }
26 else if (random_NO < num){
27     printf("Your guess is higher, try again");
28 }
29 if (count == 7) {
30     printf("\n\n sorry your luck has run out");
31     break;
32 }
33 }
34
35
36 return 0;
37 }
38
```

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\Otite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 28, Pos 730 Insert Read/Write



```
ments\C-program\Otite-Atete Peace O 17-eng04-062\assignment 4\main.exe"

enius (0 to 100:) 23
r, try again

enius (0 to 100:) 12
, try again

enius (0 to 100:) 32
r, try again

enius (0 to 100:) 24
r, try again

enius (0 to 100:) 20
, try again

enius (0 to 100:) 22
r, try again

enius (0 to 100:) 21
d.
(0x0) execution time : 30.268 s
ntinue.
```

```
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
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment 4"
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\Microsoft Visual Studio\2017\Community\VC\Tools\MSI\x64\bin\amd64;C:\Program Files\Microsoft Visual Studio\2017\Community\VC\Tools\MSI\x64\bin;C:\Program Files\Microsoft Visual Studio\2017\Community\VC\Tools\MSI\x64\bin\amd64;C:\Program Files\Microsoft Visual Studio\2017\Community\VC\Tools\MSI\x64\bin;C:\Users\HP PC\AppData\Local\Microsoft\WindowsApps;C:\Users\HP PC\AppData\Local\Programs\Microsoft
```

```
gram\Otite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 28, Pos 730 Insert Read/Write
```



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main() : int

s\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment 4\main.exe"

```
e number genius (0 to 100:) 23
s is lower, try again

e number genius (0 to 100:) 4
s is lower, try again

e number genius (0 to 100:) 54
s is higher, try again

e number genius (0 to 100:) 67
s is higher, try again

e number genius (0 to 100:) 65
s is higher, try again

e number genius (0 to 100:) 45
s is lower, try again

e number genius (0 to 100:) 43
s is lower, try again

ur luck has run out
returned 0 (0x0) execution time : 7.678 s
key to continue.
```

```
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
```

g\Otite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 28, Pos 730 Insert Read/Write



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



Start here x main.cpp x

```
1 #include <iostream>
2
3 using namespace std;
4
5 int main()
6 {
7     int y,d,w;
8     d=1343;
9     y=d/365;
10    d=d%365;
11    w=d/7;
12    d=d%7;
13    cout << "\n years: " <<y<< "\n weeks: " <<w<< "\n days: " <<d;
14    return 0;
15 }
16
```

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



gram\Oite-Atete Peace O 17-eng04-062\peace\m... C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write



```
ments\C-program\Otite-Atete Peace O 17-eng04-062\peace\main.exe"
(0x0) execution time : 0.984 s
Continue.
```

```
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
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\peace
\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\peace')
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\Otite-Atete Peace O 17-eng04-062\peace\m... C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write
```

Search



The image shows a screenshot of a C++ IDE. The main window displays a C++ program in a file named `main.cpp`. The code calculates the distance between two points in a 2D plane. The program includes `<iostream>` and `<cmath>`, uses the `std` namespace, and defines a `main` function. It prompts the user to enter coordinates for two points, calculates the distance using the Euclidean formula, and prints the result.

```
1  #include <iostream>
2  #include <cmath>
3  using namespace std;
4
5  int main()
6  {
7      float D;
8      int x, y, a, b;
9      cout << "enter point x for first co-ordinate: ";
10     cin >> x;
11     cout << "enter point y for first co-ordinate: ";
12     cin >> y;
13     cout << "enter point x for second co-ordinate: ";
14     cin >> a;
15     cout << "enter point y for second co-ordinate: ";
16     cin >> b;
17     D = sqrt(((a-x)*(a-x)) + ((b-y)*(b-y)));
18     cout << "\n Distance between two points" << D;
19     return 0;
20 }
21
```

Below the code editor, the "Logs & others" window shows the execution output. The output indicates that the program executed successfully with a status of 0 and a duration of 7 seconds.

```
Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x
\\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
Executing: "C:\\Program Files\\CodeBlocks\\cb_console_runner.exe" "C:\\Users\\HP PC\\Documents\\C-program\\Otite-Atete Peace O 17-eng04-062\\questi
\\question 2.exe" (in C:\\Users\\HP PC\\Documents\\C-program\\Otite-Atete Peace O 17-eng04-062\\question 2\\. )
Process terminated with status 0 (0 minute(s), 7 second(s))
```

The status bar at the bottom of the IDE shows the current file is `C/C++`, the window title is `Windows (CR+LF)`, the file name is `WINDOWS-1252`, and the cursor is at `Line 15, Col 51, Pos 368`. The status bar also indicates `Insert` mode and `Read/Write` permissions.

Blocks 20.03

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

Debug

main() : int

C:\Users\HP\PC\Documents\C-program\Oтите-Atete Peace O 17-eng04-062\question 2\bin\Debug\question 2.exe

```
Enter x for first co-ordinate: 1
Enter y for first co-ordinate: 2
Enter x for second co-ordinate: 3
Enter y for second co-ordinate: 4
Distance between two points: 2.82843
Returned 0 (0x0) execution time : 4.017 s
Press any key to continue.
```

```
C:\Users\HP\PC\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
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP\PC\Documents\C-program\Oтите-Atete Peace O 17-eng04-062\ques
\question 2.exe" (in C:\Users\HP\PC\Documents\C-program\Oтите-Atete Peace O 17-eng04-062\question 2\.)
```

gram\Oтите-Atete Peace O 17-eng04-062\question ... C/C++ Windows (CR+LF) WINDOWS-1252 Line 15, Col 51, Pos 368 Insert Read/Write



Code::Blocks 20.03

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

Debug

Navigation icons: Home, Back, Forward, Search, etc.

main.cpp X main.c X

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

```
\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
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP PC\Documents\C-program\Oтите-Atete Peace O 17-eng04-062\assignm
\assignment5.exe" (in C:\Users\HP PC\Documents\C-program\Oтите-Atete Peace O 17-eng04-062\assignment5\.)
Process terminated with status 0 (1 minute(s), 5 second(s))
```

Activate Win
Go to Settings to

gram\Oтите-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 1, Pos 588 Insert Read/Write



```
10
11     while(count<20)
12     {
13         printf("Enter age of person{%d}:",count +1);
14         scanf("%d",&age);
15         if (age>=0 && age<=5)
16             cnt_baby ++;
17         else if (age>=6 && age <=17)
18             cnt_school ++;
19         else
20             cnt_adult ++;
21
22         count ++;
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

\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
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assign
\assignment5.exe" (in C:\Users\HP PC\Documents\C-program\Otite-Atete Peace O 17-eng04-062\assignment5\.)
Process terminated with status 0 (1 minute(s), 5 second(s))

Activate Win
Go to Settings to

gram\Otite-Atete Peace O 17-eng04-062\assignme... C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 1, Pos 588 Insert Read/Write

Search

