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18/eng06/052

QUESTION ONE

```
#include<stdio.h>
#define DAYSINWEEK 7
int main(){
   int  year, week, days;

   printf("The number of days is 1343 days \n");
   year = 1343 / 365;
   week =(1343 % 365) / DAYSINWEEK;
   days =( 1343 % 365) % DAYSINWEEK;
   printf ("1343 days is equivalent to %d years, %d weeks and %d
days", year, week, days);

   return 0;
}
```

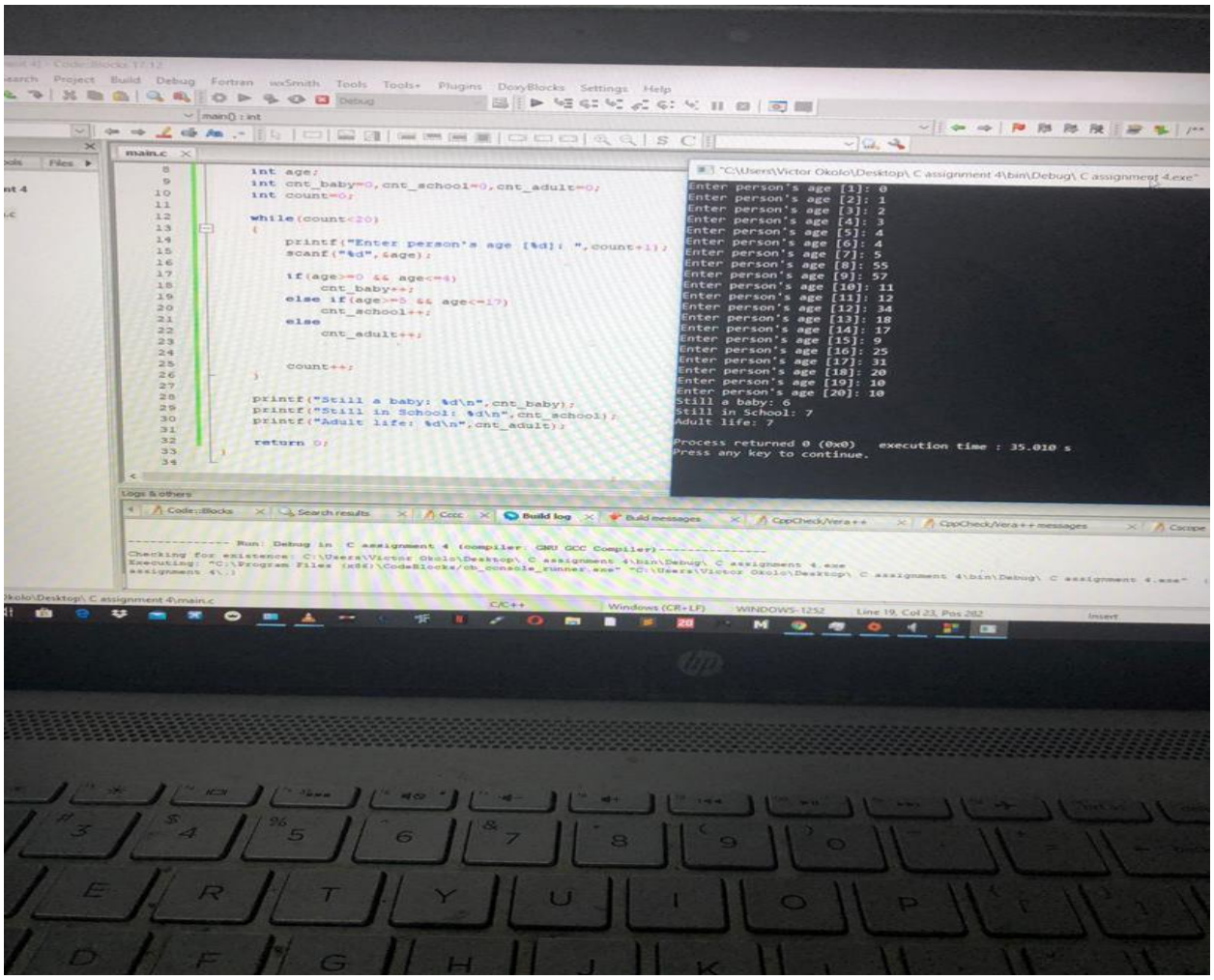
QUESTION TWO

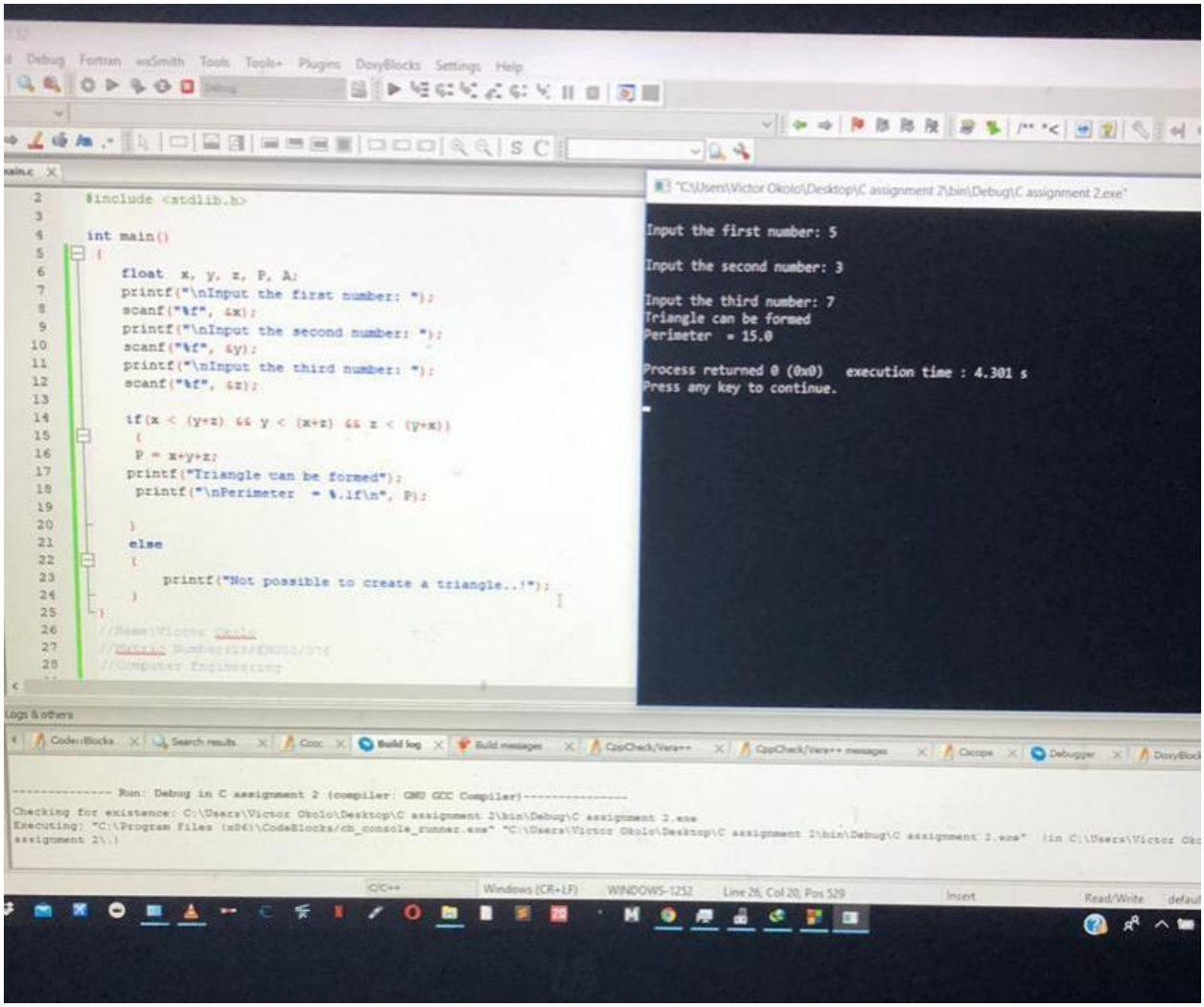
```
#include<stdio.h>
#include<math.h>
int main(){
 double x1,x2,y1,y2,distance;
 printf(" Enter the points x1,x2,y1,y2 respectively.\n");
 scanf("%lf %lf %lf %lf",&x1,&x2,&y1,&y2);
 distance = sqrt(((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1)));
 printf("The distance between the points is %lf",distance);

 return 0;
}
```

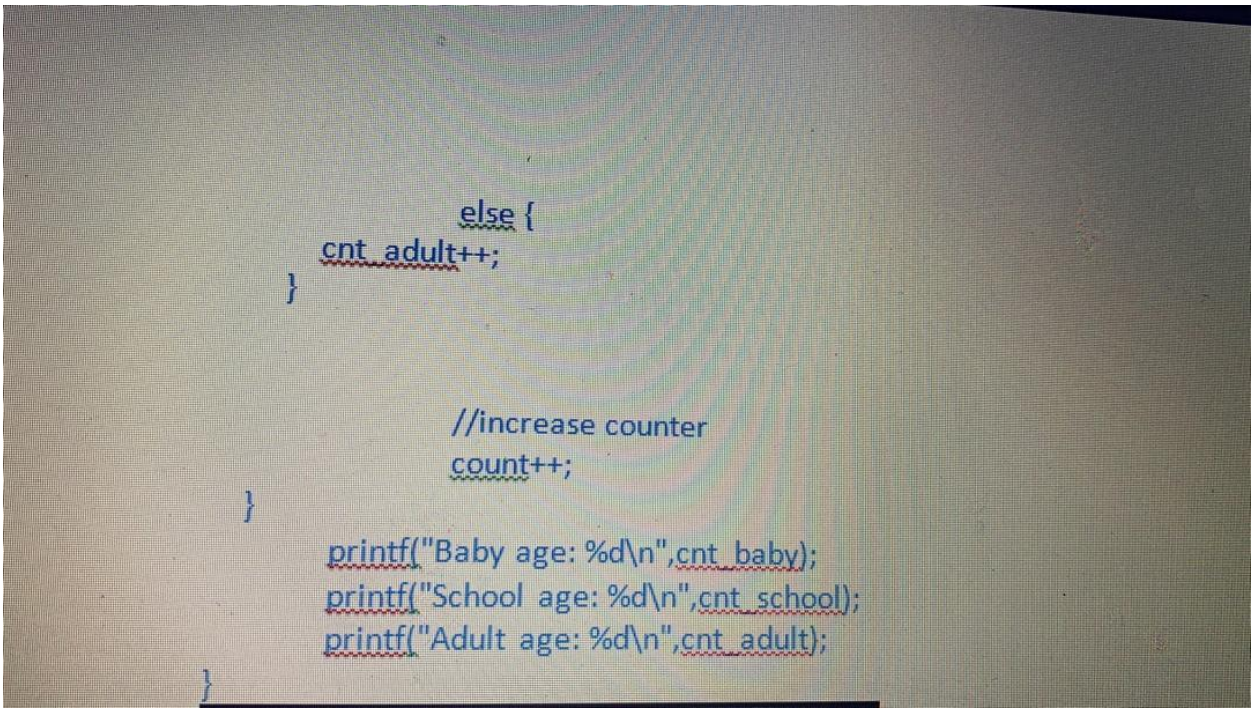
QUESTION THREE

```
#include<stdio.h>
#include<math.h>
int main(){
   float hyp,adj,opp,perimeter;
printf("Enter the hypotenuse, adjacent and opposite respectively.\n");
scanf("%f %f %f",&hyp,&adj,&opp);
```

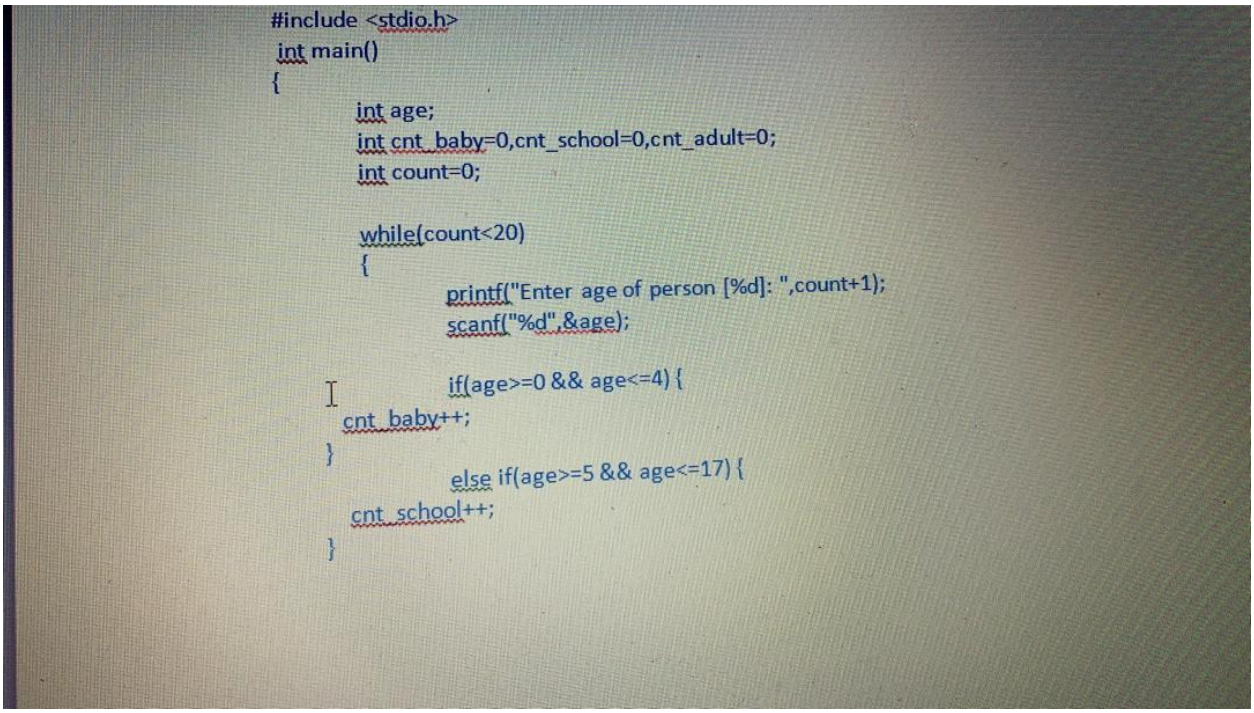
```
perimeter= hyp + adj + opp;
if(hyp==sqrt((adj*adj)+(opp*opp)))
{
printf("This is a valid triangle.\n");
printf("The perimeter of the triangle is %f",perimeter);
}
else
{
printf("This is not a valid triangle");
}
return 0;
}
```


main.c
int age;
int cnt_baby=0,cnt_school=0,cnt_adult=0;
int count=0;
while(count<20)
{
printf("Enter person's age [%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("Still a baby: %d\n",cnt_baby);
printf("Still in School: %d\n",cnt_school);
printf("Adult life: %d\n",cnt_adult);
return 0;
"C:\Users\Victor Okolo\Desktop\ C assignment 4\bin\Debug\ C assignment 4.exe"
Enter person's age [1]: 0
Enter person's age [2]: 1
Enter person's age [3]: 2
Enter person's age [4]: 3
Enter person's age [5]: 4
Enter person's age [6]: 4
Enter person's age [7]: 5
Enter person's age [8]: 55
Enter person's age [9]: 57
Enter person's age [10]: 11
Enter person's age [11]: 12
Enter person's age [12]: 34
Enter person's age [13]: 18
Enter person's age [14]: 17
Enter person's age [15]: 9
Enter person's age [16]: 25
Enter person's age [17]: 31
Enter person's age [18]: 20
Enter person's age [19]: 10
Enter person's age [20]: 10
Still a baby: 6
Still in School: 7
Adult life: 7
Process returned 0 (0x0) execution time : 35.010 s
Press any key to continue.

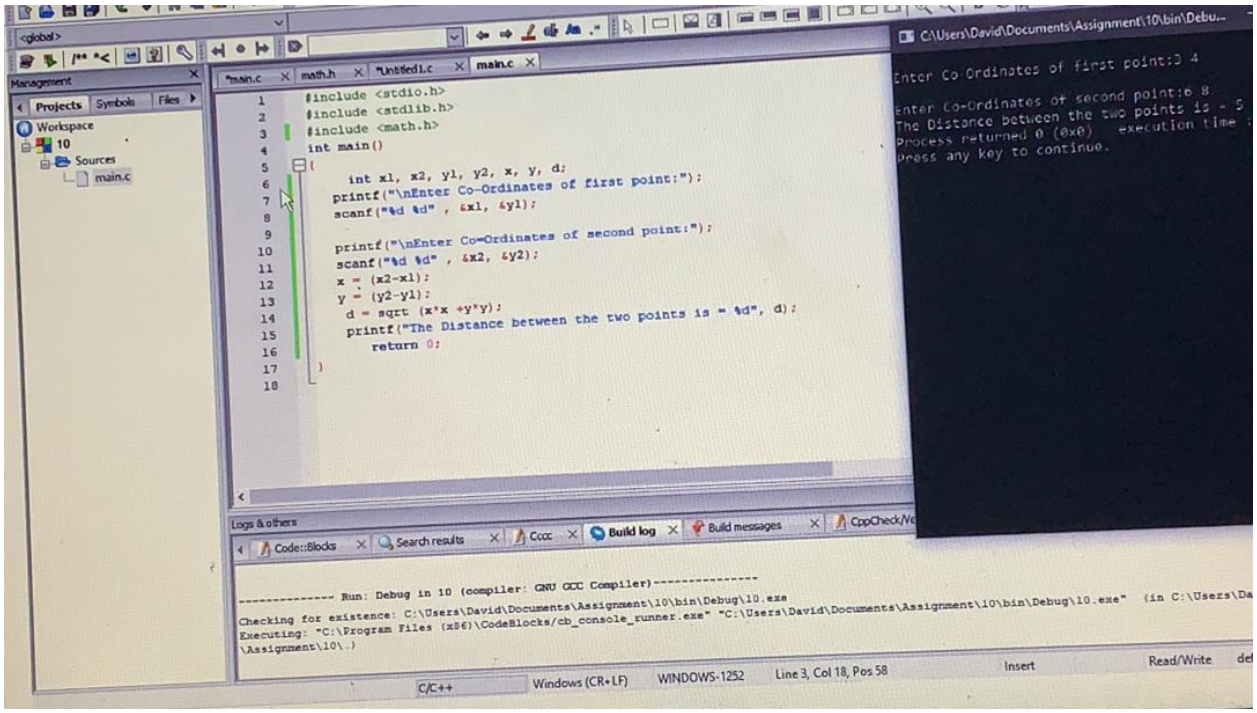

#include <stdlib.h>
int main()
{
float x, y, z, P, A;
printf("\nInput the first number: ");
scanf("%f", &x);
printf("\nInput the second number: ");
scanf("%f", &y);
printf("\nInput the third number: ");
scanf("%f", &z);
if(x < (y+z) && y < (x+z) && z < (y+x))
{
P = x+y+z;
printf("Triangle can be formed");
printf("\nPerimeter = %.1f\n", P);
}
else
{
printf("Not possible to create a triangle..!");
}
}
"C:\Users\Victor Okolo\Desktop\C assignment 2\bin\Debug\C assignment 2.exe"
Input the first number: 5
Input the second number: 3
Input the third number: 7
Triangle can be formed
Perimeter = 15.0
Process returned 0 (0x0) execution time : 4.301 s
Press any key to continue.

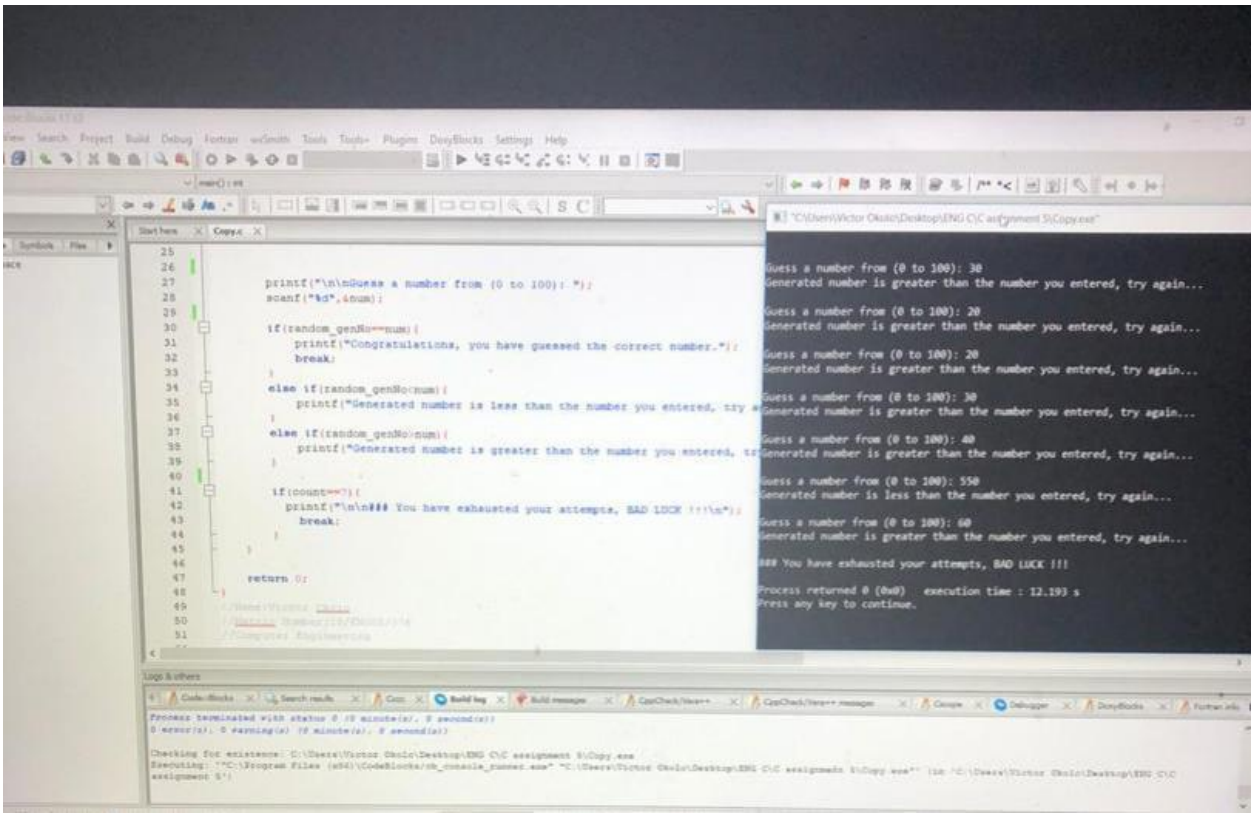


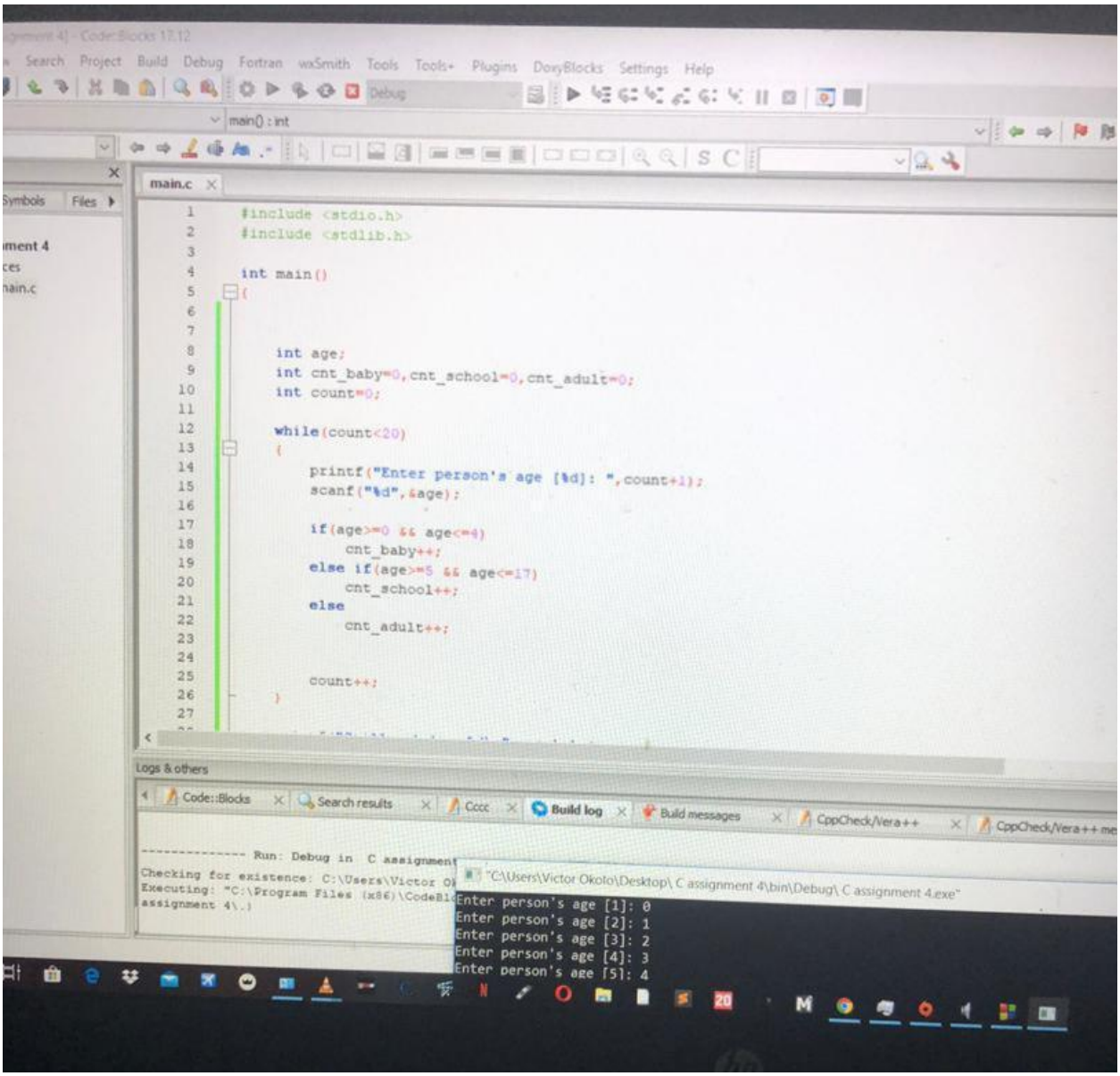
```
                else {
            cnt_adult++;
        }


                //increase counter
                count++;
    }
        printf("Baby age: %d\n",cnt_baby);
        printf("School age: %d\n",cnt_school);
        printf("Adult age: %d\n",cnt_adult);
}
```

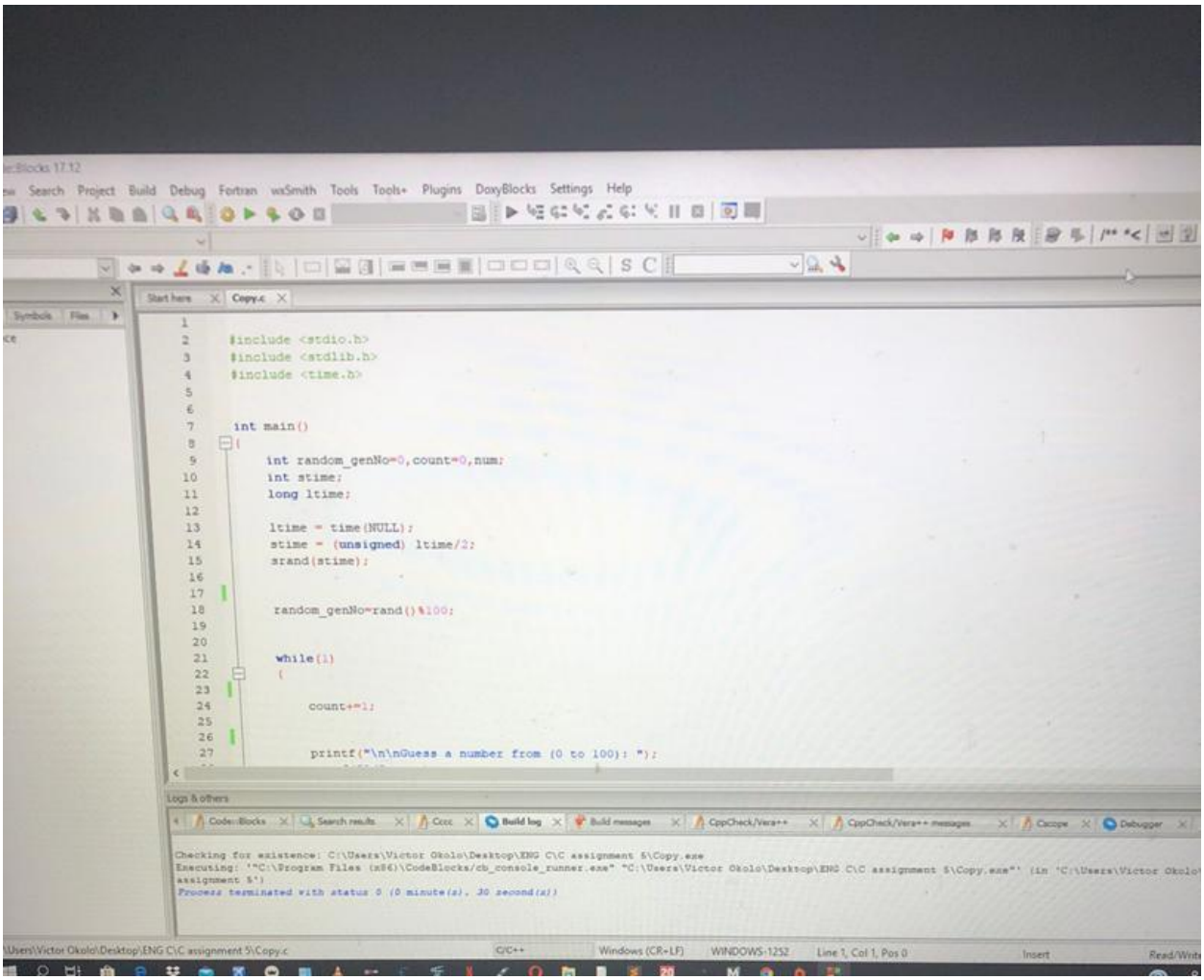


```
#include <stdio.h>
int main()
{
        int age;
        int cnt_baby=0,cnt_school=0,cnt_adult=0;
        int count=0;

        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++;
  }
```


Management
Projects
Symbols
Files
Workspace
10
Sources
main.c
*main.c
math.h
*Untitled1.c
main.c
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
{
int x1, x2, y1, y2, x, y, d;
printf("\nEnter Co-Ordinates of first point:");
scanf("%d %d" , &x1, &y1);
printf("\nEnter Co-Ordinates of second point:");
scanf("%d %d" , &x2, &y2);
x = (x2-x1);
y = (y2-y1);
d = sqrt (x*x +y*y);
printf("The Distance between the two points is = %d", d);
return 0;
}
C:\Users\David\Documents\Assignment\10\bin\Debu...
Enter Co-Ordinates of first point:3 4
Enter Co-Ordinates of second point:6 8
The Distance between the two points is = 5
Process returned 0 (0x0) execution time :
Press any key to continue.
Logs & others
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vc
---------- Run: Debug in 10 (compiler: GNU GCC Compiler)----------
Checking for existence: C:\Users\David\Documents\Assignment\10\bin\Debug\10.exe
Executing: "C:\Program Files (x86)\CodeBlocks/cb_console_runner.exe" "C:\Users\David\Documents\Assignment\10\bin\Debug\10.exe" (in C:\Users\Da
\Assignment\10\.)
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 3, Col 18, Pos 58
Insert
Read/Write


printf("\n\nGuess a number from (0 to 100): ");
scanf("%d",&num);
if(random_genNo==num){
printf("Congratulations, you have guessed the correct number.");
break;
}
else if(random_genNo<num){
printf("Generated number is less than the number you entered, try a
}
else if(random_genNo>num){
printf("Generated number is greater than the number you entered, tr
}
if(count==7){
printf("\n\n### You have exhausted your attempts, BAD LUCK !!!\n");
break;
}
}
return 0;
Guess a number from (0 to 100): 30
Generated number is greater than the number you entered, try again...
Guess a number from (0 to 100): 20
Generated number is greater than the number you entered, try again...
Guess a number from (0 to 100): 20
Generated number is greater than the number you entered, try again...
Guess a number from (0 to 100): 30
Generated number is greater than the number you entered, try again...
Guess a number from (0 to 100): 40
Generated number is greater than the number you entered, try again...
Guess a number from (0 to 100): 550
Generated number is less than the number you entered, try again...
Guess a number from (0 to 100): 60
Generated number is greater than the number you entered, try again...
You have exhausted your attempts, BAD LUCK !!!
Process returned 0 (0x0) execution time : 12.193 s
Press any key to continue.


Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
main() : int
main.c
#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 person's age [%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++;
}
Logs & others
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
"C:\Users\Victor Okolo\Desktop\ C assignment 4\bin\Debug\ C assignment 4.exe"
Enter person's age [1]: 0
Enter person's age [2]: 1
Enter person's age [3]: 2
Enter person's age [4]: 3
Enter person's age [5]: 4


Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here
Copy.c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main()
{
int random_genNo=0,count=0,num;
int stime;
long ltime;
ltime = time(NULL);
stime = (unsigned) ltime/2;
srand(stime);
random_genNo=rand()%100;
while(1)
{
count+=1;
printf("\n\nGuess a number from (0 to 100): ");
Logs & others
Checking for existence: C:\Users\Victor Okolo\Desktop\ENG C\C assignment 5\Copy.exe
Executing: '"C:\Program Files (x86)\CodeBlocks/cb_console_runner.exe" "C:\Users\Victor Okolo\Desktop\ENG C\C assignment 5\Copy.exe"' (in 'C:\Users\Victor Okolo
assignment 5')
Process terminated with status 0 (0 minute(s), 30 second(s))
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 1, Col 1, Pos 0
Insert