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18/eng04/076 ELECT/ELECT

[Document subtitle]

[Company name] | [Company address]

[Year]

**1**

#include <stdio.h>

#include <stdlib.h>

int main()

{

int days, years, weeks;

days= 1343;

years = days/365;

weeks = (days % 365)/7;

days = days- ((years\*365) + (weeks\*7));

printf("Years: %d\n", years);

printf("Weeks: %d\n", weeks);

printf("Days: %d \n", days);

return 0;

}



**2**

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

int main()

{

float x1, y1, x2, y2, distance;

printf("Input x1: ");

scanf("%f", &x1);

printf("Input y1: ");

scanf("%f", &y1);

printf("Input x2: ");

scanf("%f", &x2);

printf("Input y2: ");

scanf("%f", &y2);

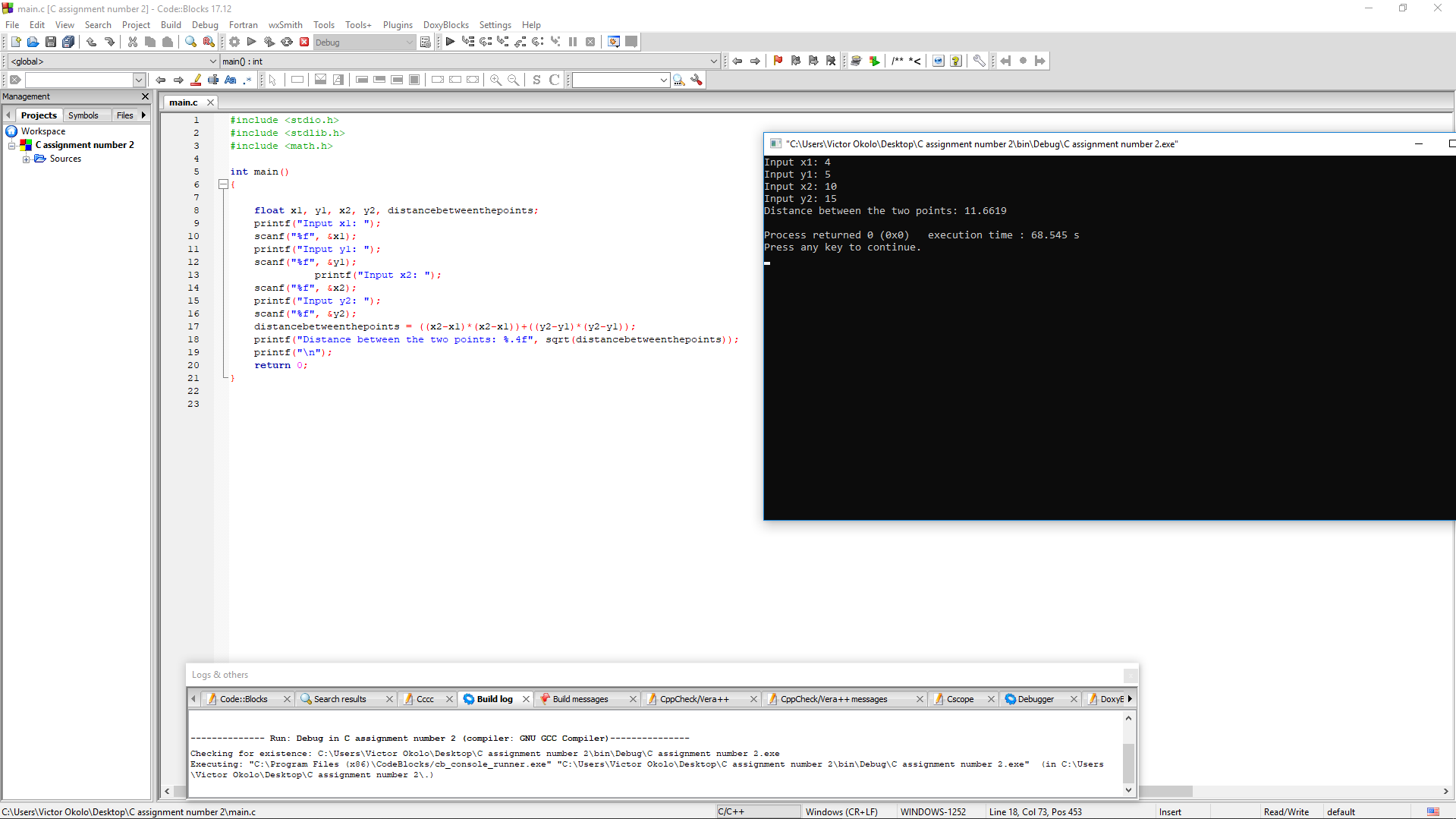
distance = ((x2-x1)\*(x2-x1))+((y2-y1)\*(y2-y1));

printf("Distance between the two points: %.4f", sqrt(distance));

printf("\n");

return 0;

}



**3**

#include <stdio.h>

#include <stdlib.h>

int main()

{

float x, y, z, P, A;

printf("\nLength of first side: ");

scanf("%f", &x);

printf("\nLength of second side: ");

scanf("%f", &y);

printf("\nLength of third side: ");

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);

}

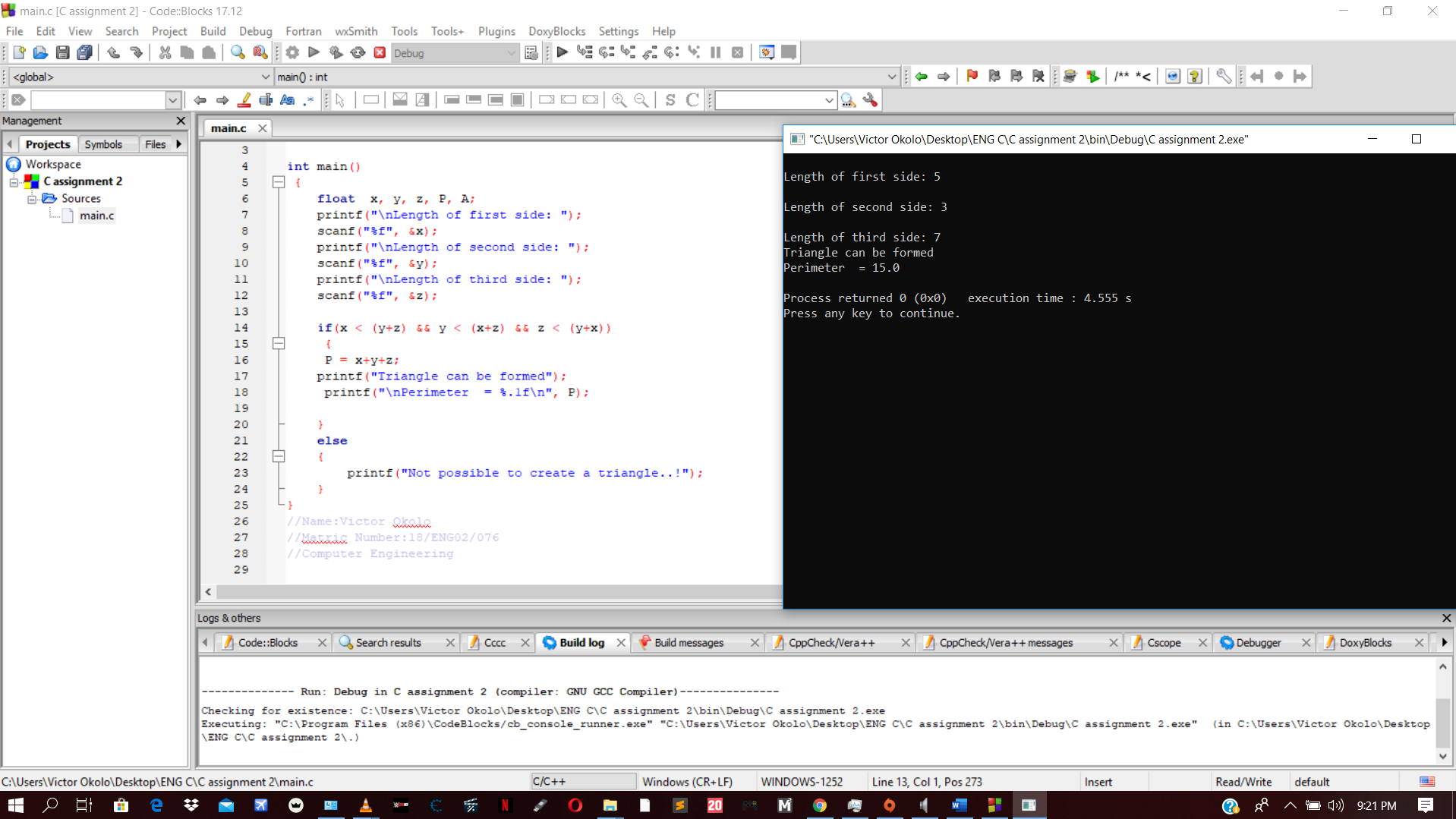
else

{

printf("Not possible to create a triangle..!");

}

}



**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 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++;

}

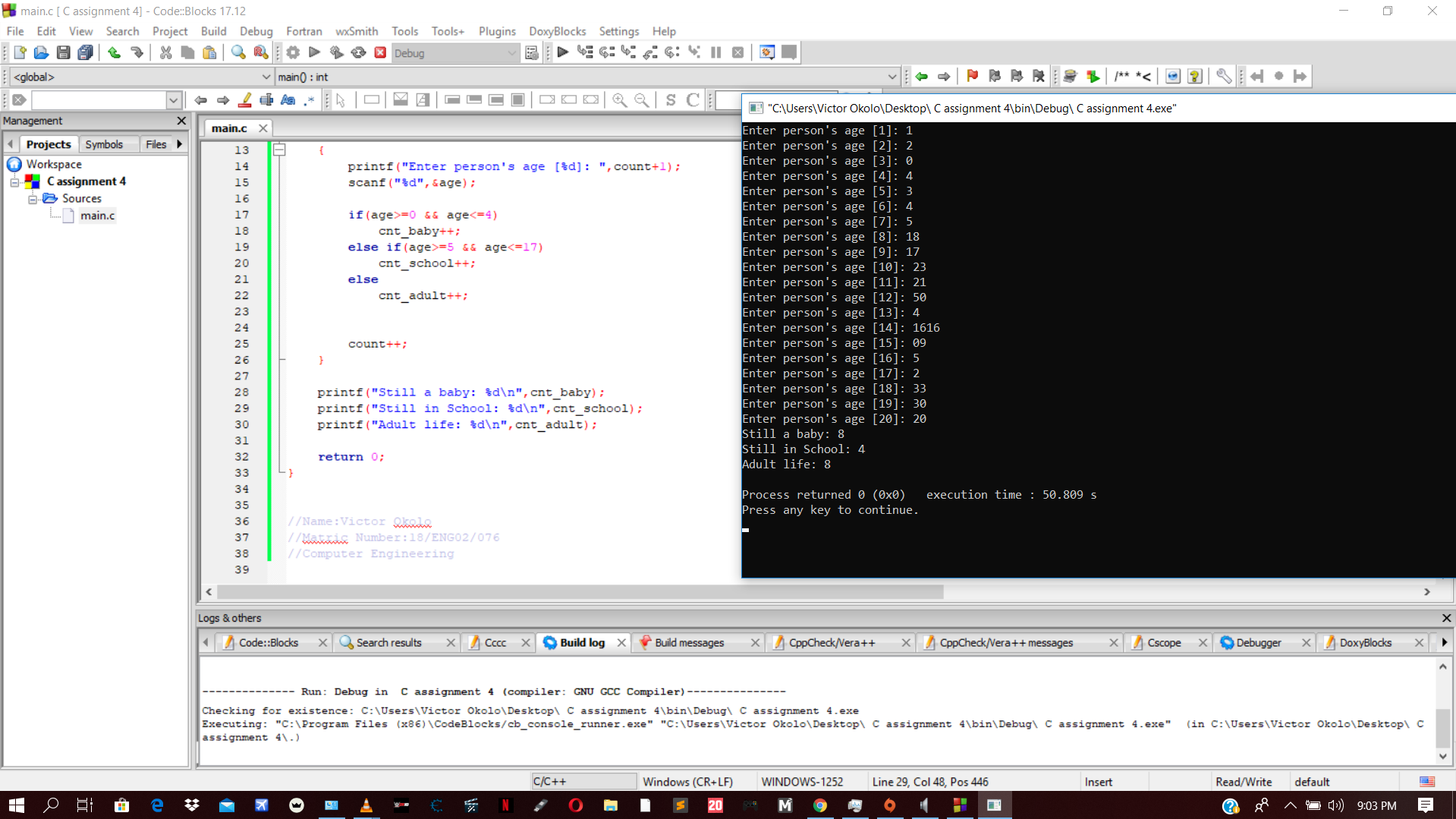
printf("Still a baby: %d\n",cnt\_baby);

printf("Still in School: %d\n",cnt\_school);

printf("Adult life: %d\n",cnt\_adult);

return 0;

}



**5**

#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): ");

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 again...");

}

else if(random\_genNo>num){

printf("Generated number is greater than the number you entered, try again...");

}

if(count==7){

printf("\n\n You have exhausted your attempts, BAD LUCK !!!\n");

break;

}

}

return 0;

}

