NAME: ABUBAKAR HANNY OSHIOZOKHAI

MATRIC NO: 18/ENG05/003

DEPT: MECHATRONICS

COURSE CODE: ENG 224

COURSE TITLE: STRUCTURED COMPUTER PROGRAMMING

ASSIGNMENT

no 1.c [eng 224 codes] - Code::Blocks 17.12

File   Edit   View   Search   Project   Build   Debug   Fortran   wxSmith   Tools   Tools+   Plug
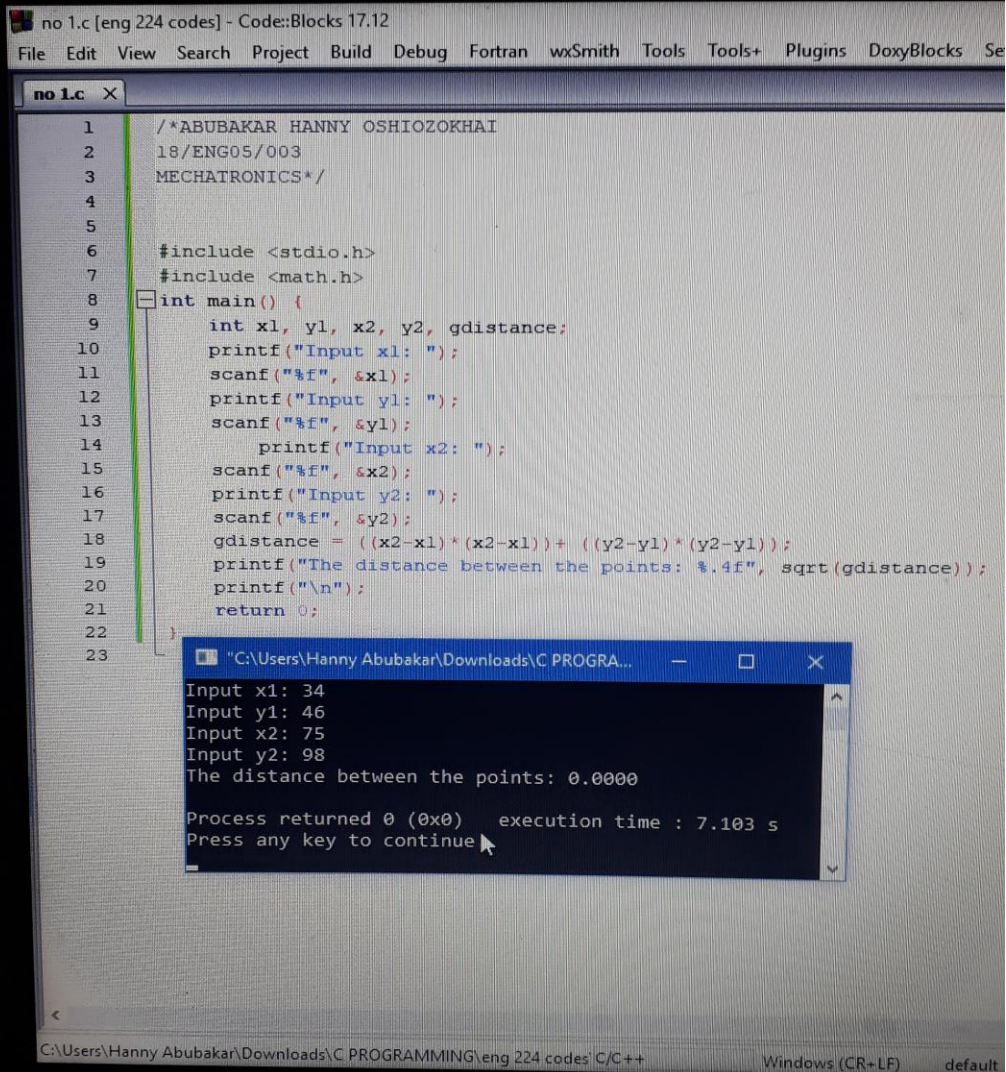
no 1.c ✕

```c
1    /*ABUBAKAR  HANNY  OSHIOZOKHAI
2    18/ENG05/003
3    MECHATRONICS*/
4    #include <stdio.h>
5     int main()
6    {
7    int days, years, weeks;
8    days = 1343;
9
10   years = days/365;
11   weeks = (days % 365)/7;
12   days = days- ((years*365) + (weeks*7));
13
14   printf("Years: %d\n", years);
15   printf("Weeks: %d\n", weeks);
16   printf("Days: %d \n", days);
17   return 0;
18   }
19
20
```

"C:\Users\Hanny Abubakar\Downloads\C PROGR...   —   ☐   ✕

```
Years: 3
Weeks: 35
Days: 3

Process returned 0 (0x0)   execution time : 0.098 s
Press any key to continue.
```

C:\Users\Hanny Abubakar\Downloads\C PROGRAMMING\eng 224 codes C/C++   Windo

no 1.c [eng 224 codes] - Code::Blocks 17.12

File   Edit   View   Search   Project   Build   Debug   Fortran   wxSmith   Tools   Tools+   Plugins   DoxyBlocks   Se

no 1.c   X

```c
1       /*ABUBAKAR HANNY OSHIOZOKHAI
2       18/ENG05/003
3       MECHATRONICS*/
4
5
6       #include <stdio.h>
7       #include <math.h>
8       int main() {
9           int x1, y1, x2, y2, gdistance;
10          printf("Input x1: ");
11          scanf("%f", &x1);
12          printf("Input y1: ");
13          scanf("%f", &y1);
14              printf("Input x2: ");
15          scanf("%f", &x2);
16          printf("Input y2: ");
17          scanf("%f", &y2);
18          gdistance = ((x2-x1)*(x2-x1))+ ((y2-y1)*(y2-y1));
19          printf("The distance between the points: %.4f", sqrt(gdistance));
20          printf("\n");
21          return 0;
22      }
23
```

"C:\Users\Hanny Abubakar\Downloads\C PROGRA...   —   □   ×

```
Input x1: 34
Input y1: 46
Input x2: 75
Input y2: 98
The distance between the points: 0.0000

Process returned 0 (0x0)   execution time : 7.103 s
Press any key to continue
```

C:\Users\Hanny Abubakar\Downloads\C PROGRAMMING\eng 224 codes C/C++   Windows (CR+LF)   default

```
no 1.c [eng 224 codes] - Code::Blocks 17.12
le  Edit  View  Search  Project  Build  Debug  Fortran  wxSmith  Tools  Tools+  Plugins  DoxyBlo
```

no 1.c X

```c
1    /*ABUBAKAR HANNY OSHIOZOKHAI
2    18/ENG05/003
3    MECHATRONICS*/
4
5
6    #include <stdio.h>
7    int main() {
8        int x, y, z, P , A;
9        printf("\nInput first number: ");
10       scanf("%f", &x);
11       printf("\nInput second number: ");
12       scanf("%f", &y);
13       printf("\nInput third number: ");
14       scanf("%f", &z);
15
16       if(x < (y+z) && y < (x+z) && z < (y+x))
17       {
18       P = x+y+z;
19       printf("\nPerimeter = %.1f\n", P);
20       }
21       else
22       {
23       printf("Triangle cannot be created..!");
24       }
25   }
26
```

```
"C:\Users\Hanny Abubakar\Downloads\C PROGRAMMIN...    —    ☐    ✕

Input first number: 5

Input second number: 7

Input third number: 3
Triangle cannot be created..!
Process returned 0 (0x0)    execution time : 4.946 s
Press any key to continue.
```

C/C++   Windows (CR+LF)

Edit   View   Search   Project   Build   Debug   Fortran   wxSmith   Tools   Tools+   Plugins   DoxyBlocks

o 1.c   X

```c
1      /*ABUBAKAR HANNY OSHIOZOKHAI
2      18/ENG05/003
3      MECHATRONICS*/
4
5
6      #include <stdio.h>
7      int main()
8      {
9          int age;
10         int num_baby=0,num_school=0,num_adult=0;
11         int count=0;
12         while(count<20)
13         {
14             printf("Input age of the person [%d]: ",count+1);
15             scanf("%d",&age);
16             If(age>=0 && age<=4)
17             {
18                 num_baby++;
19             }
20             else if(age>=5 && age<=17)
21             {
22                 num_school++;
23             }
24             else
25             {
26                 num_adult++;
27             }
28
29             count++;
30         }
31         printf("Baby age: %d\n",count_baby);
32         printf("School age: %d\n",count_school);
33         printf("Adult age: %d\n",count_adult);
34         return 0;
35     }
36
```

```c
/*ABUBAKAR HANNY OSHIOZOKHAI
18/ENG05/003
MECHATRONICS*/

#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()%1000;

while(1)
{
count+=1;

        printf("\n\nGuess a number from (0 to 1000): ");
scanf("%d",&num);

            if(random_genNo==num){
printf("You guessed a correct number.");
break;
}
else if(random_genNo<num){
printf("The generated number is less than the number you entered, try again...");
}
else if(random_genNo>num){
printf("The generated number is greater than entered number, try again...");
}
            if(count==7){
printf("\n\n### You have reached the limit, sorry ! \n");
```

Console output:

```
Guess a number from (0 to 1000): 45
The generated number is greater than entered number, try again...

Guess a number from (0 to 1000): 4
The generated number is greater than entered number, try again...

Guess a number from (0 to 1000): 34
The generated number is greater than entered number, try again...

Guess a number from (0 to 1000): 6
The generated number is greater than entered number, try again...

Guess a number from (0 to 1000): 465
The generated number is less than the number you entered, try again...

Guess a number from (0 to 1000): 6
The generated number is greater than entered number, try again...

Guess a number from (0 to 1000): 5
The generated number is greater than entered number, try again...

### You have reached the limit, sorry !

Process returned 0 (0x0)   execution time : 13.981 s
Press any key to continue.
```