

Oduntan Ayomide

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;
}
```

The screenshot shows a laptop screen displaying a C program in Code::Blocks 17.12. The code is a simple program that counts the number of babies, school-aged children, and adults based on user input for 20 people. The terminal window shows the execution of the program, including user input and the resulting counts.

```
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;
```

Terminal Output:

```
C:\Users\Victor Okolo\Desktop\C assignment 4\b1n\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]: 5
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]: 8
Enter person's age [14]: 17
Enter person's age [15]: 9
Enter person's age [16]: 25
Enter person's age [17]: 33
Enter person's age [18]: 19
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.
```

Taskbar:

- Run: Doing in C assignment 4 (compiler: GNU GCC Compiler)
- Checking for existence: C:\Users\Victor Okolo\Desktop\C assignment 4\b1n\Debug\ C assignment 4.exe
- File: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" -> C:\Users\Victor Okolo\Desktop\C assignment 4\b1n\Debug\ C assignment 4.exe

System Status:

- C/C++
- Windows (CR+LF)
- WINDOWS-1252
- Line 19, Col 23, Pos 282
- Insert

The screenshot shows the Code::Blocks IDE interface. On the left, the code editor displays a C program named 'main.c'. The code prompts the user for three numbers (x, y, z) and checks if they can form a triangle based on the triangle inequality theorem. If the numbers can form a triangle, it calculates and prints the perimeter. The right side of the interface shows the terminal window where the program is run. The terminal output shows the user inputting 5, 3, and 7, and the program outputting that a triangle can be formed with a perimeter of 15.0.

```
2 #include <stdlib.h>
3
4 int main()
5 {
6     float x, y, z, P, A;
7     printf("\nInput the first number: ");
8     scanf("%f", &x);
9     printf("\nInput the second number: ");
10    scanf("%f", &y);
11    printf("\nInput the third number: ");
12    scanf("%f", &z);
13
14    if(x < (y+z) && y < (x+z) && z < (y+x))
15    {
16        P = x+y+z;
17        printf("Triangle can be formed");
18        printf("\nPerimeter = %.1f\n", P);
19    }
20    else
21    {
22        printf("Not possible to create a triangle..!");
23    }
24
25 }
```

```
"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.
```

Logs & others

```
-- Run: Debug in C assignment 2 (compiler: GNU GCC Compiler) --
Checking for existence: C:\Users\Victor Okolo\Desktop\C assignment 2\bin\Debug\C assignment 2.exe
Executing: "C:\Program Files (x86)\CodeBlocks\ch_console_runner.exe" "C:\Users\Victor Okolo\Desktop\C assignment 2\bin\Debug\C assignment 2.exe" (in C:\Users\Victor Okolo\Desktop\C assignment 2\)
```

```
        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++;
        }
    }
}
```

The screenshot shows the Code::Blocks IDE interface. On the left, the Project Explorer displays a workspace named '10' containing a single source file 'main.c'. The main window shows the code for calculating the distance between two points:

```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
{
    int xl, x2, y1, y2, x, y, d;
    printf("\nEnter Co-ordinates of first point:");
    scanf("%d %d", &xl, &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;
}
```

The terminal window on the right shows the execution of the program:

```
C:\Users\David\Documents\Assignment\10\bin\Debug>
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 : 0.000000s
Press any key to continue.
```

At the bottom, the status bar displays:

```
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\David\Documents\Assignment\10\..)
```

The screenshot shows the Code::Blocks IDE interface. The top menu bar includes File, Search, Project, Build, Debug, Fontsize, Tools, Plugins, DevBlocks, Settings, and Help. The main window displays a C code file named `Copy.c`. The code implements a simple number guessing game where the user tries to guess a number between 0 and 100. The user's input is read via `scanf("%d", &num)`, and the generated number is checked against the user's guess using nested if statements. If the user's guess is correct, they are congratulated. If it is incorrect, they are told if the generated number is greater or less than their guess. A counter variable `count` keeps track of the number of attempts. If the user reaches 10 attempts without success, they are informed that they have exhausted their attempts and the game ends with a "BAD LUCK !!!" message. The code concludes with a `return 0;` statement.

```
25
26
27     printf("\n\nGuess a number from (0 to 100): ");
28     scanf("%d", &num);
29
30     if(random_genNo==num) {
31         printf("Congratulations, you have guessed the correct number.\n");
32         break;
33     }
34     else if(random_genNo<num) {
35         printf("Generated number is less than the number you entered, try again...\n");
36     }
37     else if(random_genNo>num) {
38         printf("Generated number is greater than the number you entered, try again...\n");
39     }
40
41     if(count==10) {
42         printf("\n\n*** You have exhausted your attempts, BAD LUCK !!!\n");
43         break;
44     }
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47 }
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```

Assignment 4 - Code::Blocks 17.12

File Project Build Debug Fortran Tools Tools+ Plugins DocBlocks Settings Help

main(): int

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4     int main()
5 {
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 person's age [1]: ",count+1);
14         scanf("%d",&age);
15
16         if(age>=0 && age<=4)
17             cnt_baby++;
18         else if(age>=5 && age<=17)
19             cnt_school++;
20         else
21             cnt_adult++;
22
23         count++;
24     }
25 }
```

Logs & others

Code::Blocks Search results Ccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages

```
-- Run: Debug in C assignment
Checking for existence: C:\Users\Victor Okolo\Desktop\C assignment 4\bin\Debug\C assignment 4.exe
Executing: "C:\Program Files (x86)\CodeBlocks\bin\Debug\>C assignment 4\."
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
```

The screenshot shows the Code::Blocks IDE interface. The main window displays a C source code file named "Copy.c". The code implements a simple number guessing game where the computer generates a random number between 0 and 100 and the user tries to guess it. The user's input is stored in the variable "num". The code uses standard input and output functions from stdio.h and stdlib.h, and the time function from time.h to generate a random seed.

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <time.h>
4
5
6
7  int main()
8  {
9      int random_genNo=0, count=0, num;
10     int stime;
11     long ltime;
12
13     ltime = time(NULL);
14     stime = (unsigned) ltime/2;
15     srand(stime);
16
17     random_genNo=rand()%100;
18
19
20     while(1)
21     {
22
23         count++;
24
25
26         printf("\n\nGuess a number from (0 to 100): ");
27     }
28 }
```

The status bar at the bottom shows the current working directory as "C:\Users\Victor Okolo\Desktop\ENG C\C assignment 5", the compiler as "C/C++", the operating system as "Windows (CR+LF)", the code page as "WINDOWS-1252", the current line as "Line 1, Col 1, Pos 0", and the mode as "Insert".