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MAT NO: 18/ENG08/012

DEPT: BIOMEDICAL ENGINEERING

COUSE: ENG224 ASSIGNMENT (C PROGRAMMING)

NUMBER 1:

```
main.c X
1  #include <stdio.h>
2  #include <stdlib.h>
3  //(1) write a C program to convert 1343 days into years, weeks and days (ignore leap year).
4  int main()
5  {
6      int days, years, weeks;
7      days = 1343;
8      years = days/365;
9      weeks = (days%365)/7;
10     days = days- ((years*365) + (weeks*7));
11
12     printf("years: %d/n", years);
13     printf("weeks: %d/n", weeks);
14     printf("days: %d/n", days);
15
16     return 0;
17 }
18
```

Output window: "C:\Users\Godwin Nwimo\Desktop\C PROGRAM\NUMBER 1\bin\Debug\NU...
years: 3/nweeks: 35/ndays: 3/n
Process returned 0 (0x0) execution time : 0.116 s
Press any key to continue.

Log & others
----- Run: Debug in NUMBER 1 (compiler: GNU GCC Compiler)-----
Checking for existence: C:\Users\Godwin Nwimo\Desktop\C PROGRAM\NUMBER 1\bin\Debug\NUMBER 1.exe
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\Godwin Nwimo\Desktop\C PROGRAM\NUMBER 1\bin\Debug\NUMBER 1.exe" (in C:\Users\Godwin Nwimo\Desktop\C PROGRAM\NUMBER 1\.)

NUMBER 2:

```
Projects | Symbols | Files
Workspace
NUMBER 1
Sources
main.c
number 2 (18/ENG08/012)
Sources
main.c
```

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int x1, y1, x2, y2, x, y, distance;
7      int x1, y1;
8
9      //(2) write the coordinates of the first point
10     printf("enter coordinates of first point x1: ");
11     scanf("%d", &x1);
12     printf("input y1: ");
13     scanf("%d", &y1);
14     printf("input x2: ");
15     scanf("%d", &x2);
16     printf("input y2: ");
17     scanf("%d", &y2);
18     x = (x2-x1);
19     y = (y2-y1);
20     distance = sqrt(x*x + y*y);
21     printf("distance = %d", distance);

```

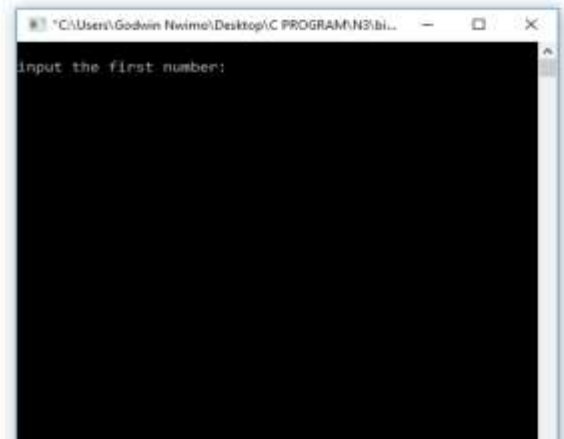
Output window: "C:\Users\Godwin Nwimo\Desktop\C PROGRAM\012\nt...
enter coordinates of first point x1:

Log & others
----- Run: Debug in number 2 (18/ENG08/012) (compiler: GNU GCC Compiler)-----
Checking for existence: C:\Users\Godwin Nwimo\Desktop\C PROGRAM\012\number 2 (18/ENG08)\bin\Debug\number 2 (18/ENG08/012).exe
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\Godwin Nwimo\Desktop\C PROGRAM\012\number 2 (18/ENG08)\bin\Debug\number 2 (18/ENG08/012).exe" (in C:\Users\Godwin Nwimo\Desktop\C PROGRAM\012\number 2 (18/ENG08/012).)

NUMBER 3:

main.c [X] - CodeBlocks 17.12
File Edit View Search Project Build Debug Fortran w3smith Tools Tools+ Plugins OneClick Settings Help

```
main.c [X]
1
2
3 #include <stdio.h>
4 #include <stdlib.h>
5
6 int main()
7 {
8     float x, y, z, p;
9     printf("\ninput the first number: ");
10    scanf("%f", &x);
11    printf("\ninput the second number: ");
12    scanf("%f", &y);
13    printf("\ninput the third number: ");
14    scanf("%f", &z);
15
16    if(x < (y+z) && y < (x+z) && z < (x+y))
17    {
18        p = x+y+z;
19        printf("triangle can be created and the ");
20        printf("\nperimeter = %.1f\n", p);
21    }
22    else
23    {
24        printf("not possible to create a triangle.");
25    }
26
27    return 0;
28 }
29
```



NUMBER4:

```
main.c [X]
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     int age;
7     int cnt_school;
8     int cnt_baby = 0, cnt_school=0, cnt_adult = 0;
9     int count = 0;
10    while(count<20)
11    {
12
13        printf("enter age of person [%d]: ", count+1);
14        scanf("%d", &age);
15
16
17        if (age>=0 && age<=6)
18            cnt_baby++;
19
20        else if (age>=6 && age<17)
21
22            cnt_school++;
23        else
24            cnt_adult++;
25
26        count++;
27    }
28
29    printf("baby age: %d\n", cnt_baby);
30    printf("school age: %d\n", cnt_school);
31    printf("adult age: %d\n", cnt_adult);
32    return 0;
33 }
34
```



Number 5:

```
17 scanf("%d", &num);
18 if(random_NO==num){
19     printf("Congratulations, you have guessed a correct number");
20     break;
21 }
22 else if(random_NO > num){
23     printf("Generated number is higher than entered number, try again");
24 }
25 else if(random_NO < num){
26     printf("Generated number is less than entered number, try again");
27 }
28
29 if(count==10){
30     printf("\n\n### Maximum limit of attempt finished. Bad luck!!! \n");
31     break;
32 }
33
34 return 0;
35
36
```

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <time.h>
4 int main()
5 {
6     int random_NO=0, count=0, num;
7     int stime;
8     long ltime;
9     ltime = time(NULL);
10    stime = (unsigned) ltime/2;
11    srand(stime);
12    random_NO = rand()%100;
13    while(1)
14    {
15        count++;
16        printf("\n\n Guess a number from 0 to 100:");
17        scanf("%d", &num);
18        if(random_NO==num){
19            printf("Congratulations, you have guessed a correct number");
20            break;
21        }
22    }
23 }
```