NAME: SAMPSON SOPHIA

MATRIC NO: 19/ENG08/009

DEPARTMENT: BIOMEDICAL ENGINEERING


```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int days,weeks,years;
    days=1343;
    //convert days to weeks,years and days
    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;
}
```



```
years:3
weeks:35
days:3

Process returned 0 (0x0)   execution time : 0.159 s
Press any key to continue.
```

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

`<global>`   main() : int

Start here   main.c

```c
1       #include <stdio.h>
2       #include <stdlib.h>
3
4       int main()
5       {
6           float x1,y1,x2,y2,pdistance;
7           printf("Input x1:");
8           scanf("%f",&x1);
9           printf("Input y1:");
10           scanf("%f",&y1);
11           printf("Input x2:");
12           scanf("%f",&x2);
13            printf("Input y2:");
14             scanf("%f",&y2);
15             pdistance=(((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1)));
16             printf("Distance between the points:%.4f",sqrt(pdistance));
17             printf("\n");
18             return 0;
19       }
20
```

```
"C:\Users\Sampson\Desktop\C programming\Sophia assignment 2\main.exe"

Input x1:9
Input y1:25
Input x2:16
Input y2:64
Distance between the points:39.6232

Process returned 0 (0x0)   execution time : 11.998 s
Press any key to continue.
```

Logs & oth

File

Start here   main.c

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    float x,y,z,P;
    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("\nPerimeter=%lf\n",P);
    }
    else
    {
        printf("Not possible to create a triangle!");
    }
    return 0;
}
```

```
"C:\Users\Sampson\Desktop\C programming\Sophia assignment 3\main.exe"

Input the first number:3

Input the second number:5

Input the third number:7

Perimeter=15.000000

Process returned 0 (0x0)   execution time : 3.204 s
Press any key to continue.
```

Process
0 error

Checkin
Executi
\Sophia

`<global>`

Start here × **main.c** ×

```c
1   #include <stdio.h>
2   #include <stdlib.h>
3
4   int main()
5   {
6       int age;
7       int cnt_baby=0,cnt_school=0,cnt_adult=0;
8       int count=0;
9
10      while(count<20)
11      {
12          printf("Enter age of person [%d]: ",count+1);
13          scanf("%d",&age);
14          if(age>=0 && age<=4)
15              cnt_baby++;
16          else if(age>=5 && age<=17)
17              cnt_school++;
18          else
19              cnt_adult++;
20              //increase counter
21          count++;
22      }
23      printf("Baby age: %d\n",cnt_baby);
24      printf("School age: %d\n",cnt_school);
```

Logs & others

`<global>`

Start here × **main.c** ×

```c
7       int cnt_baby=0,cnt_school=0,cnt_adult=0;
8       int count=0;
9
10      while(count<20)
11      {
12          printf("Enter age of person [%d]: ",count+1);
13          scanf("%d",&age);
14          if(age>=0 && age<=4)
15              cnt_baby++;
16          else if(age>=5 && age<=17)
17              cnt_school++;
18          else
19              cnt_adult++;
20              //increase counter
21          count++;
22      }
23      printf("Baby age: %d\n",cnt_baby);
24      printf("School age: %d\n",cnt_school);
25      printf("Adult age: %d\n",cnt_adult);
26
27      return 0;
28  }
29
```

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

<global>

Start here   ×   main.c   ×

```
7         int cnt_baby=0,cnt_school=0,cnt_adult=0;
8         int count=0;
```

"C:\Users\Sampson\Desktop\C programming\Sophi assignment 4\main.exe"

```
Enter age of person [1]: 4
Enter age of person [2]: 6
Enter age of person [3]: 8
Enter age of person [4]: 46
Enter age of person [5]: 1
Enter age of person [6]: 3
Enter age of person [7]: 98
Enter age of person [8]: 67
Enter age of person [9]: 45
Enter age of person [10]: 23
Enter age of person [11]: 17
Enter age of person [12]: 15
Enter age of person [13]: 9
Enter age of person [14]: 10
Enter age of person [15]: 64
Enter age of person [16]: 93
Enter age of person [17]: 87
Enter age of person [18]: 41
Enter age of person [19]: 4
Enter age of person [20]: 18
Baby age: 4
School age: 6
Adult age: 10

Process returned 0 (0x0)   execution time : 52.732 s
Press any key to continue.
```

Logs & o

Proce
0 err

Check

File   Edit   View   Search   Project   Build   Debug   Fortran   wxSmith   Tools   Tools+   P

<global>

Start here   ×   main.c   ×
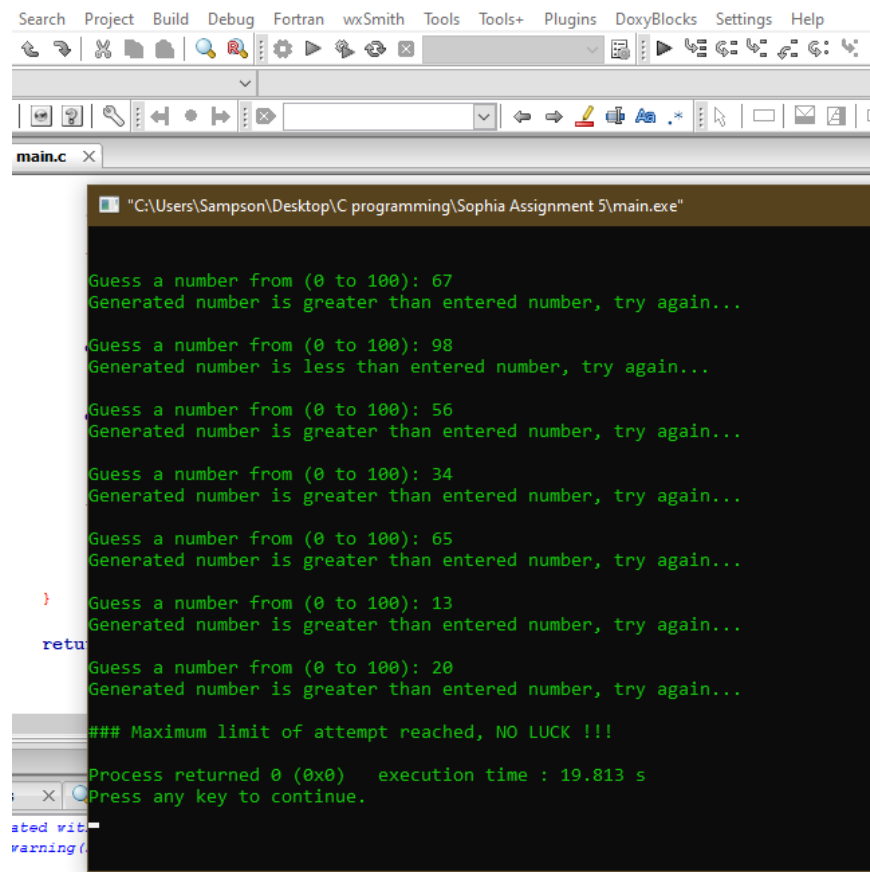
```c
1    #include <stdio.h>
2    #include <stdlib.h>
3    #include <time.h>
4
5    int main()
6    {
7        int random_genNo=0,count=0,num;
8        int stime;
9        long ltime;
10
11       ltime = time(NULL);
12       stime = (unsigned) ltime/2;
13       srand(stime);
14
15       //generate random number
16       random_genNo=rand()%100;
17
18       //run infinite loop
19       while(1)
20       {
21           //increase counter
22           count+=1;
23
24           //read number from user
```

```c
20          {
21              //increase counter
22              count+=1;
23
24              //read number from user
25              printf("\n\nGuess a number from (0 to 100): ");
26              scanf("%d",&num);
27
28              //compare entered number with generated number
29
30              if(random_genNo==num){
31                  printf("Congratulations, you have guessed a right number.");
32                  break;
33              }
34              else if(random_genNo<num){
35                  printf("Generated number is less than entered number, try again...");
36              }
37              else if(random_genNo>num){
38                  printf("Generated number is greater than entered number, try again...");
39              }
40
41              if(count==7){
42                  printf("\n\n### Maximum limit of attempt reached, NO LUCK !!!\n");
43                  break;
```

```c
27
28              //compare entered number with generated number
29
30              if(random_genNo==num){
31                  printf("Congratulations, you have guessed a right number.");
32                  break;
33              }
34              else if(random_genNo<num){
35                  printf("Generated number is less than entered number, try again...");
36              }
37              else if(random_genNo>num){
38                  printf("Generated number is greater than entered number, try again...");
39              }
40
41              if(count==7){
42                  printf("\n\n### Maximum limit of attempt reached, NO LUCK !!!\n");
43                  break;
44              }
45          }
46
47          return 0;
48      }
49
```

Search   Project   Build   Debug   Fortran   wxSmith   Tools   Tools+   Plugins   DoxyBlocks   Settings   Help

main.c ×

■ "C:\Users\Sampson\Desktop\C programming\Sophia Assignment 5\main.exe"

```
Guess a number from (0 to 100): 67
Generated number is greater than entered number, try again...

Guess a number from (0 to 100): 98
Generated number is less than entered number, try again...

Guess a number from (0 to 100): 56
Generated number is greater than entered number, try again...

Guess a number from (0 to 100): 34
Generated number is greater than entered number, try again...

Guess a number from (0 to 100): 65
Generated number is greater than entered number, try again...

Guess a number from (0 to 100): 13
Generated number is greater than entered number, try again...

Guess a number from (0 to 100): 20
Generated number is greater than entered number, try again...

### Maximum limit of attempt reached, NO LUCK !!!

Process returned 0 (0x0)   execution time : 19.813 s
Press any key to continue.
```
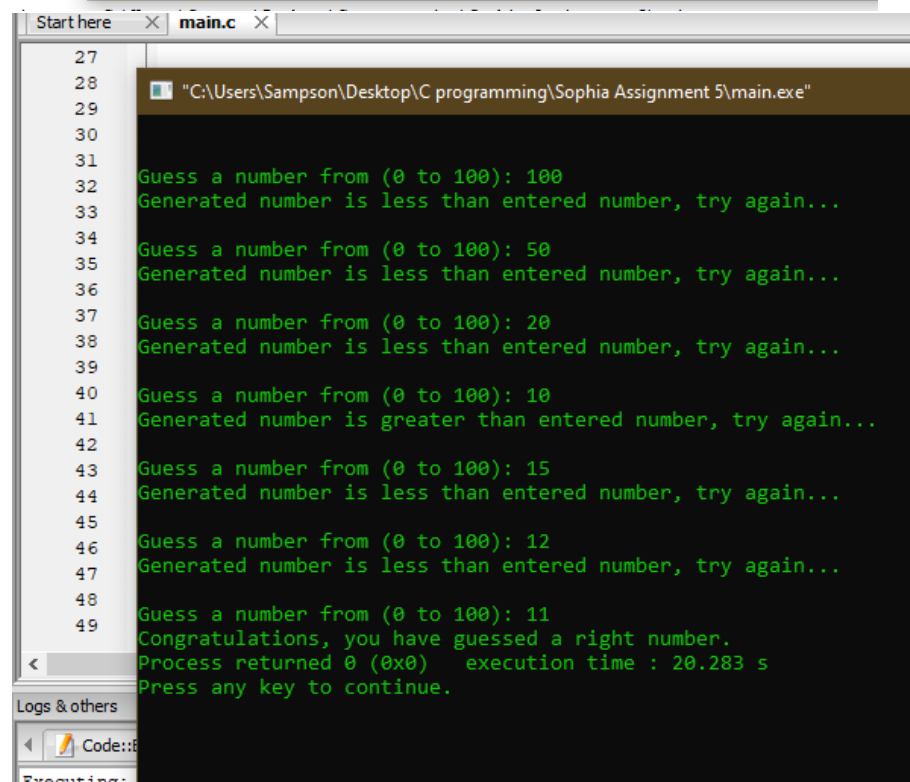
Start here   ×   main.c ×

```
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```

■ "C:\Users\Sampson\Desktop\C programming\Sophia Assignment 5\main.exe"

```
Guess a number from (0 to 100): 100
Generated number is less than entered number, try again...

Guess a number from (0 to 100): 50
Generated number is less than entered number, try again...

Guess a number from (0 to 100): 20
Generated number is less than entered number, try again...

Guess a number from (0 to 100): 10
Generated number is greater than entered number, try again...

Guess a number from (0 to 100): 15
Generated number is less than entered number, try again...

Guess a number from (0 to 100): 12
Generated number is less than entered number, try again...

Guess a number from (0 to 100): 11
Congratulations, you have guessed a right number.
Process returned 0 (0x0)   execution time : 20.283 s
Press any key to continue.
```

Logs & others

Code::B

Executing: