

A screenshot of a C programming environment. The top menu bar includes 'bug', 'Fortran', 'wxSmith', 'Tools', 'Tools+', 'Plugins', and 'DoxyBlocks'. The toolbar contains icons for search, settings, run, stop, and others. The main window has tabs for 'main()' and 'int'. The code editor shows the following C code:

```
#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;
}
```

The output window displays the results of the program execution:

```
"C:\Users\NGOZI S. AZUKA\Desktop\c program\my program"
years: 3
weeks: 35
days: 3

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

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

int main()
{
    float x1, y1, x2, y2, distancebetweenthepoints;
    printf("input x1: ");
    scanf("%f", &x1);
    printf("input y1: ");
    scanf("%f", &y1);
    printf("input x2: ");
    scanf("%f", &x2);
    printf("input y2: ");
    scanf("%f", &y2);
    distancebetweenthepoints = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
    printf("distance between the two points: %.4f", sqrt(distancebetweenthepoints));
    printf("\n");
    return 0;
}
```

```
input x1: 12
input y1: 19
input x2: 23
input y2: 8
distance between the two points: 15.8563

Process returned 0 (0x0) execution time : 64.637 s
Press any key to continue.
```

```
Build messages X CppCheck/Vera++ X CppCheck/Vera++ messages X Cscope X Debugger X Doxygen X
```

```
Line Message
==== Build: Debug in my c program (compiler: GNU GCC Compiler) ====
In function 'main':
  warning: implicit declaration of function 'sqrt' (-Wimplicit-function-declaration)
  warning: incompatible implicit declaration of built-in function 'sqrt'
  note: include '<math.h>' or provide a declaration of 'sqrt'
```

Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Debug

main() int

main.c X main.c X

```
int main()
{
    float x, y, z, P;
    printf("\nInput first variable: ");
    scanf("%f", &x);
    printf("\nInput second variable:");
    scanf("%f", &y);
    printf("\nInput third variable:");
    scanf("%f", &z);
    if(x < (y+z) && y < (x+z) && z < (y+z))

        P = x+y+z;
        printf("Triangle can be formed");
        printf("\nPerimeter = %.1f\n", P);
    }
    else
    {
        printf("Not possible to create a triangle...!");
    }
    return 0;
}
```

"C:\Users\NGOZI S. AZUKA\Desktop\c program\my cc program"

Input first variable: 6
Input second variable:9
Input third variable:4
Triangle can be formed
Perimeter = f
Process returned 0 (0x0) execution time : 12.
Press any key to continue.

Build log X Build messages X CppCheck/Vera++ X CppCheck/Vera++ messages X Cscope X Debugger X

File: Debug in my cc program (compiler: GNU GCC Compiler)-----
executed: "C:\Users\NGOZI S. AZUKA\Desktop\c program\my cc program"

```
Q:\int
main.c X main.c X main.c X

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;
```

```
C:\Users\NGOZI S. AZUKA\Desktop\

Enter person's age [1]:2
Enter person's age [2]:3
Enter person's age [3]:4
Enter person's age [4]:6
Enter person's age [5]:7
Enter person's age [6]:9
Enter person's age [7]:11
Enter person's age [8]:15
Enter person's age [9]:12
Enter person's age [10]:11
Enter person's age [11]:6
Enter person's age [12]:9
Enter person's age [13]:16
Enter person's age [14]:12
Enter person's age [15]:20
Enter person's age [16]:23
Enter person's age [17]:34
Enter person's age [18]:50
Enter person's age [19]:45
Enter person's age [20]:47
Still a baby: 3
Still in school: 11
Adult life: 6

Process returned 0 (0x0)   exe
```

Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Debug

main() : int

```
#include <stdlib.h>

int main()
{
    int random_genNo=0, count=0, num;
    int stime;
    long Itime;
    Itime = time(NULL);
    stime = (unsigned) ItIME/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 can no more attempt, FAILED !!!\n");
        break;}
    }
    return 0;
}
```

"C:\Users\NGOZI S. AZUKA\Desktop\c program..."

Guess a number from (0 to 100: 70
Generated number is greater than the number you entered, try again .

Guess a number from (0 to 100: 55
Generated number is greater than the number you entered, try again .

Guess a number from (0 to 100: 99
Generated number is less than the number you entered, try again .

Guess a number from (0 to 100: 77
Generated number is less than the number you entered, try again .

Guess a number from (0 to 100: 77
Generated number is less than the number you entered, try again .

Guess a number from (0 to 100: 88
Generated number is less than the number you entered, try again .

you can no more attempt, FAILED !!!

Process returned 0 (0x0) execution time : 111.

Press any key to continue.

Program: Azuka/main.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 8, Col 15, Pos 134 Insert DoxyBlocks Read/Write default