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

int main()
{
    int days, years, weeks;

    /* Input total number of days from user */
    printf("Enter days: ");
    scanf("%d", &days);

    /* Conversion */
    years = (days / 365);      // Ignoring leap year
    weeks = (days % 365) / 7;
    days  = days - ((years * 365) + (weeks * 7));

    /* Print all resultant values */
    printf("YEARS: %d\n", years);
    printf("WEEKS: %d\n", weeks);
    printf("DAYS: %d", days);

    return 0;
}
```

```
Enter days: 1343
YEARS: 3
WEEKS: 35
DAYS: 3
Process returned 0 (0x0)   execution time : 11.205 s
Press any key to continue.
```

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

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

```c
#include <stdio.h>
#include <stdlib.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++;
        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);

    return 0;
}
```

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

int main()
{
   float  x, y, z, P, A;
      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 = %.1f\n", P);

         }

      else
         {
            printf("Not possible to create a triangle..!");
         }
}
```

```
Input x1: 78
Input y1: 40
Input x2: 120
Input y2: 80
Distance between the said points: 58.0000

Process returned 0 (0x0)    execution time : 34.383 s
Press any key to continue.
```

```
Input the first number: 4

Input the second number: 5

Input the third number: 6

Perimeter = 15.0

Process returned 0 (0x0)    execution time : 5.912 s
Press any key to continue.
```

```
Enter age of person [1]: 3
Enter age of person [2]: 5
Enter age of person [3]: 4
Enter age of person [4]: 46
Enter age of person [5]: 12
Enter age of person [6]: 18
Enter age of person [7]: 19
Enter age of person [8]: 20
Enter age of person [9]: 39
Enter age of person [10]: 9
Enter age of person [11]: 11
Enter age of person [12]: 12
Enter age of person [13]: 90
Enter age of person [14]: 56
Enter age of person [15]: 10
Enter age of person [16]: 1
Enter age of person [17]: 70
Enter age of person [18]: 45
Enter age of person [19]: 33
Enter age of person [20]: 50
Baby age: 3
School age: 6
Adult age: 11

Process returned 0 (0x0)   execution time : 61.428 s
Press any key to continue.
```

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

int main()
{
    int random_genNo=0,count=0,num;
    int stime;
    long ltime;

    //initialize srand with current time, to get random number on every run
    ltime = time(NULL);
    stime = (unsigned) ltime/2;
    srand(stime);

    //generate random number
    random_genNo=rand()%100;

    //run infinite loop
    while(1)
    {
        //increase counter
        count+=1;

        //read number from user
        printf("\n\nGuess a number from (0 to 100): ");
        scanf("%d",&num);

        //compare entered number with generated number

        if(random_genNo==num){
            printf("Congratulations, you have guessed a correct number.");
            break;
        }
        else if(random_genNo<num){
            printf("Generated number is less than entered number, try your luck again...");
        }
        else if(random_genNo>num){
            printf("Generated number is greater than entered number, try your luck
again...");
        }

        if(count==7){
            printf("\n\n### Maximum limit of attempt finished, BAD LUCK !!!\n");
            break;
        }

    }

    return /
}
```

```
Guess a number from (0 to 100): 4
Generated number is greater than entered number, try your luck ag

Guess a number from (0 to 100): 70
Generated number is less than entered number, try your luck again

Guess a number from (0 to 100): 45
Generated number is greater than entered number, try your luck ag

Guess a number from (0 to 100): 59
Generated number is greater than entered number, try your luck ag

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

Guess a number from (0 to 100): 60
Congratulations, you have guessed a correct number.
Process returned 0 (0x0)   execution time : 36.058 s
Press any key to continue.
```