

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int days, years, weeks;
7
8      /* Input total number of days from user */
9      printf("Enter days: ");
10     scanf("%d", &days);
11
12     /* Conversion */
13     years = (days / 365); // Ignoring leap year
14     weeks = (days % 365) / 7;
15     days = days - ((years * 365) + (weeks * 7));
16
17     /* Print all resultant values */
18     printf("YEARS: %d\n", years);
19     printf("WEEKS: %d\n", weeks);
20     printf("DAYS: %d", days);
21
22     return 0;
23
24
```

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```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      float x1, y1, x2, y2, gdistance;
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     gdistance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
16     printf("Distance between the said points: %.4f", sqrt(gdistance));
17     printf("\n");
18     return 0;
19 }
20
```


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.




```
1  #include <stdio.h>
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("\nPerimeter = %.1f\n", P);
18     }
19     else
20     {
21         printf("Not possible to create a triangle..!");
22     }
23 }
24
25
```


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.




```
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
15         if(age>=0 && age<=4)
16             cnt_baby++;
17         else if(age>=5 && age<=17)
18             cnt_school++;
19         else
20             cnt_adult++;
21
22         //increase counter
23         count++;
24     }
25
26     printf("Baby age: %d\n", cnt_baby);
27     printf("School age: %d\n", cnt_school);
28     printf("Adult age: %d\n", cnt_adult);
29
30     return 0;
31 }
32
```

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.




```

2 #include <stdlib.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     int random_genNo=0, count=0, num;
7     int stime;
8     long ltime;
9
10    //initialize srand with current time, to get random number on every run
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
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 correct number.");
32            break;
33        }
34        else if(random_genNo<num){
35            printf("Generated number is less than entered number, try your luck again...");
36        }
37        else if(random_genNo>num){
38            printf("Generated number is greater than entered number, try your luck
39            again...");
40        }
41
42        if(count==7){
43            printf("\n\nMaximum limit of attempts finished, BAD LUCK !!!\n");
44            break;
45        }
46    }
47    return 0;
48 }
49

```



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

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 ap

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.
```