

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     int days, years, weeks;
7
8     days = 1343;
9
10    years = days / 365;
11    weeks = (days % 365) / 7;
12    days = days - ((years * 365) + (weeks * 7));
13
14    printf("Years: %d\n", years);
15    printf("Weeks: %d\n", weeks);
16    printf("Days: %d\n", days);
17
18    return 0;
19 }
```

Years: 3

Weeks: 35

Days: 3

Process returned 0 (0x0) execution time : 0.088 s

Press any key to continue.

```

1 #include <stdio.h>
2 #include <math.h>
3
4 int main()
5 {
6     int x1, x2, y1, y2, x, y, d;
7     printf("\nEnter Co-ordinates of first point:");
8     scanf("%d %d", &x1, &y1);
9
10    printf("\nEnter Co-ordinates of second point:");
11    scanf("%d %d", &x2, &y2);
12    x = x2-x1;
13    y = y2-y1;
14    d = sqrt (x*x +y*y);
15    printf("The Distance between the two points is = %d", d);
16
17    return 0;
18 }

```

```

Enter Co-ordinates of first point:5 9
Enter Co-ordinates of second point:8 2
The Distace between the two points is = 7
Process returned 0 (0x0)   execution time : 15.384 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("Triangle can be formed");
18        printf("\nPerimeter = %f\n", P);
19    }
20    else
21    {
22        printf("Not possible to create a triangle..!");
23    }
24
25    return 0;
26 }

```

Input the first number: 5

Input the second number: 3

Input the third number: 7

Triangle can be formed

Perimeter = 15

Process returned 0 (0x0) execution time : 10.436 s

Press any key to continue.

```
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 person's age [%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        count++;
22    }
23    printf("Still a baby: %d\n", cnt_baby);
24    printf("Still in school: %d\n", cnt_school);
25    printf("Adult life: %d\n", cnt_adult);
26
27    return 0;
28 }
```

```
Enter person's age [1]: 5
Enter person's age [2]: 7
Enter person's age [3]: 8
Enter person's age [4]: 11
Enter person's age [5]: 12
Enter person's age [6]: 13
Enter person's age [7]: 18
Enter person's age [8]: 1
Enter person's age [9]: 1
Enter person's age [10]: 8
Enter person's age [11]: 9
Enter person's age [12]: 22
Enter person's age [13]: 24
Enter person's age [14]: 35
Enter person's age [15]: 65
Enter person's age [16]: 12
Enter person's age [17]: 13
Enter person's age [18]: 11
Enter person's age [19]: 5
Enter person's age [20]: 6
Still a baby: 2
Still in school: 13
Adult life: 5
```

```
Process returned 0 (0x0) execution time : 40.694 s
Press any key to continue.
```

```
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     random_genNo=rand()*100;
16
17     while(1)
18     {
19
20         count+=1;
21
22         printf("\nGuess a number from (0 to 100): ");
23         scanf("%d", &num);
24
25         if(random_genNo==num)
26             printf("Congratulations, you have guessed the correct number.");
27             break;
28     }
29     else if(random_genNo<num)
30         printf("Generated number is less than the number you entered, try again.");
31     }
32     else if(random_genNo>num)
```

```

16
17 while (1)
18 {
19
20     count++;
21
22     printf("\n\nGuess a number from (0 to 100): ");
23     scanf("%d", &num);
24
25     if (random_gen() == num) {
26         printf("Congratulations, you have guessed the correct number.");
27         break;
28     }
29     else if (random_gen() < num) {
30         printf("Generated number is less than the number you entered, try again.");
31     }
32     else if (random_gen() > num) {
33         printf("Generated number is greater than the number you entered, try again.");
34     }
35
36     if (count == 7) {
37         printf("\n\n!!! You have exhausted your attempts, BAD LUCK !!!\n");
38     }
39 }
40 return 0;
41
42

```

```

0
Guess a number from (0 to 100): 10
Generated number is less than the number you entered, try again.\n
Guess a number from (0 to 100): 7
Generated number is less than the number you entered, try again.\n
Guess a number from (0 to 100): 5
Generated number is less than the number you entered, try again.\n
Guess a number from (0 to 100): 3
Congratulations, you have guessed the correct number.
Process returned 0 (0x0)   execution time : 20.834 s
Press any key to continue.

```