

18/ENG02/007

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COMPUTER ENGINEERING

```
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     while(count<20)
10    {
11        printf("Enter person's age [%d]:",count+1);
12        scanf("%d",&age);
13        if(age>=0 && age<=4)
14            cnt_baby++;
15        else if(age>=5 && age<=17)
16            cnt_school++;
17        else
18            cnt_adult++;
19        count++;
20    }
21    printf("Still a baby: %d\n",cnt_baby);
22    printf("Still in School: %d\n",cnt_school);
23    printf("Adult life: %d\n",cnt_adult);
24    return 0;
25
```

```
Enter person's age [1]:1
Enter person's age [2]:2
Enter person's age [3]:3
Enter person's age [4]:4
Enter person's age [5]:5
Enter person's age [6]:6
Enter person's age [7]:9
Enter person's age [8]:10
Enter person's age [9]:17
Enter person's age [10]:19
Enter person's age [11]:20
Enter person's age [12]:49
Enter person's age [13]:50
Enter person's age [14]:14
Enter person's age [15]:0
Enter person's age [16]:1
Enter person's age [17]:12
Enter person's age [18]:61
Enter person's age [19]:18
Enter person's age [20]:2
Still a baby: 7
Still in School: 7
Adult life: 6
Process returned 0 (0x0) execution time : 48.452 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 first number: ");
8     scanf("%f", &x);
9     printf("\nInput second number: ");
10    scanf("%f", &y);
11    printf("\nInput third number: ");
12    scanf("%f", &z);
13    if(x < (y+z) && y < (x+z) && z < (y+x))
14    {P = x+y+z;
15    printf("Triangle can be formed");
16    printf("\nPerimeter = %.1f\n", P);
17    }
18    else
19    {
20        printf("Not possible to create a triangle..!");
21    }
22 }
23
24
```

```
Input first number: 7
Input second number: 3
Input third number: 5
Triangle can be formed
Perimeter = 15.0
Process returned 0 (0x0) execution time : 3.854 s
Press any key to continue.
```

```

1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     float x1, y1, x2, y2, distancebetweenthepoints;
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    distancebetweenthepoints = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
16    printf("Distance between the two points: %.4f", sqrt(distancebetweenthepoints));
17    printf("\n");
18    return 0;
19 }
20
21
22
23
24

```

```

Input x1: 14
Input y1: 18
Input x2: 30
Input y2: 28
Distance between the two points: 18.8680
Process returned 0 (0x0) execution time : 11.689 s
Press any key to continue.

```

```

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

```

```

Years: 3
Weeks: 35
Days: 3
Process returned 0 (0x0) execution time : 0.010 s
Press any key to continue.

```

```

4 : main()
5 {
6     int random_genNo=0,count=0,num;
7     int stime;
8     long ltime;
9     ltime = time(NULL);
10    stime = (unsigned) ltime/2;
11    srand(stime);
12    random_genNo=rand()%100;
13    while(1)
14    {
15        count++;
16        printf("\n\nGuess a number from (0 to 100: ");
17        scanf("%d",&num);
18        if(random_genNo==num){
19            printf("Congratulations, you have guessed the correct number.");
20            break;
21        }
22        else if(random_genNo<num){
23            printf("Generated number is less than the number you entered, try again...");
24        }
25        else if(random_genNo>num){
26            printf("Generated number is greater than the number you entered, try again...");
27        }
28        if(count==7){
29            printf("\n\n### You have exhausted your attempt, BAD LUCK !!!\n");
30            break;
31        }
32    }
33    return 0;
34 }
35

```

```

Guess a number from (0 to 100: 467
Generated number is less than the number you entered, try again...

Guess a number from (0 to 100: 12
Generated number is greater than the number you entered, try again...

Guess a number from (0 to 100: 78
Generated number is greater than the number you entered, try again...

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

Guess a number from (0 to 100: 534
Generated number is less than the number you entered, try again...

### You have exhausted your attempt, BAD LUCK !!!
Process returned 0 (0x0) execution time : 21.477 s
Press any key to continue.

```