

```
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.
```

```

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 : 21.47
7 s
Press any key to continue.

```

```

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 //NAME: SOFEGHA KATHERINE
2 //DEPARTMENT: CHEMICAL
3 //MATRIC NO: 18/ENG01/023
4
5 #include <stdio.h>
6 #include <stdlib.h>
7
8 int main ()
9 {
10     int days, years, weeks;
11     days = 1343;
12     years = days / 365;
13     weeks = (days % 365) / 7;
14     days = days - ((years * 365) + (weeks * 7));
15     printf("Years: %d\n", years);
16     printf("Weeks: %d\n", weeks);
17     printf("Days: %d\n", days);
18     return 0;
19 }
```