

```
1 #include <stdio.h>
2 #define DAYSINWEEK 7
3
4 void main()
5
6 {
7     int ndays, year, week, days;
8
9     printf("Enter number of days\n");
10    scanf("%d", &ndays);
11    year= ndays / 365;
12    week=(ndays % 365) / DAYSINWEEK;
13    days=(ndays % 365)% DAYSINWEEK;
14    printf("%d is equivalent to %d years, %d weeks and %d days", year, week, days);
15
16    return 0;
17 }
18
```

```
Enter number of days
1343
1343 is equivalent to 3 years, 35 weeks and 3 days
Process returned 51 (0x33)   execution time : 80.792 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, 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 point: %.4f",sqrt(gdistance));
17    printf("\n");
18
19    return 0;
20
21 }
```

```
input x1: 39
input y1: 12
input x2: 89
input y2: 78
Distance between the said point: 82.8010

Process returned 0 (0x0)   execution time : 8.585 s
Press any key to continue.
```

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6
7     float x, y, z, P, A;
8     printf("\ninput the first number x: ");
9     scanf("%f", &x);
10    printf("\ninput the second number y: ");
11    scanf("%f", &y);
12    printf("\ninput the third number z: ");
13    scanf("%f", &z);
14
15    if(x < (y+z) && y < (x+z) && z < (y+x))
16    {
17        P = x+y+z;
18        printf("\nPerimeter = %.1f\n", P);
19    }
20    else
21    {
22
23        printf("Not possible to create a triangle!!!\n");
24    }
25
26    return 0;
27
28 }
```

```
input the first number x: 3
input the second number y: 5
input the third number z: 7
Perimeter = 15.0
Not possible to create a triangle!!!
Process returned 0 (0x0) execution time : 5.404 s
Press any key to continue.
```

WAY
WAY2
WAY3
DWAY4

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6
7     int age;
8     int cnt_baby=0,cnt_school=0,cnt_adult=0;
9     int count=0;
10
11    while(count<20)
12    {
13        printf("Enter age of person[%d]: ",count+i);
14        scanf("%d",&age);
15
16        if(age>=0&age<=4)
17            cnt_baby++;
18        if(age>=5&age<=17)
19            cnt_school++;
20        else
21            cnt_adult++;
22
23        count++;
24    }
25    printf("Baby age:%d\n",cnt_baby);
26    printf("School age:%d\n",cnt_school);
27    printf("Adult age:%d\n",cnt_adult);
28    return 0;
29 }
```

```
Enter age of person[1]: 56
Enter age of person[2]: 9
Enter age of person[3]: 0
Enter age of person[4]: 45
Enter age of person[5]: 3
Enter age of person[6]: 89
Enter age of person[7]: 12
Enter age of person[8]: 34
Enter age of person[9]: 14
Enter age of person[10]: 15
Enter age of person[11]: 56
Enter age of person[12]: 67
Enter age of person[13]: 8923
Enter age of person[14]: 5
Enter age of person[15]: 9
Enter age of person[16]: 45
Enter age of person[17]: 4
Enter age of person[18]: 89
Enter age of person[19]: 65
Enter age of person[20]: 2
Baby age:4
School age:6
Adult age:14
```

```
Process returned 0 (0x0) execution time : 86.650 s
Press any key to continue.
```

Logs & others

```
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 shorttime;
9     long longtime;
10
11    longtime=time(NULL);
12    shorttime=(unsigned)time/2;
13    srand(shorttime);
14
15    //generates random number
16    random_genNo=rand()%100;
17
18    //run infinite loop
19    while(1)
20    {
21        //increases counter
22        count+=1;
23
24        //ask user to guess
25        printf("\n\nGuess a number from (0 to 100):");
26        scanf("%d", &num);
27
28        //compare entered number with generated number
29    }
```

```
Guess a number from (0 to 100):89
Generate number is less than entered number, try your luck again...
Guess a number from (0 to 100):89
Generate number is greater than entered number, try your luck again...
Guess a number from (0 to 100):89
Generate number is greater than entered number, try your luck again...
Guess a number from (0 to 100):7
Generate number is greater than entered number, try your luck again...
Guess a number from (0 to 100):456
Generate number is less than entered number, try your luck again...
Guess a number from (0 to 100):2345
Generate number is less than entered number, try your luck again...
Guess a number from (0 to 100):8
Generate number is greater than entered number, try your luck again...
Maximum limit of attempt finished, GAME OVER FOR YOU!
Process returned 0 (0x0)  execution time : 16.794 s
Press any key to continue.
```

joys assignment



...

BASSEY JOY A

18/ENG01/004

CHEMICAL ENGINEERING

1).

#include<stdio.h>

#include<conio.h>

void main()

{

int days ,yr, mn, wk, d;

printf("Enter the no of days");

scanf("%d",&days);

yr = days /365;

mn =(days /365)/30;

printf("Years= %d \t Months= %d \t Weeks =%d \t days = %d",yr, mn, wk, d);

// converts days to years, weeks and months

getch();

}

2).

#include <stdio.h>

#include <math.h>

int main() {

float x1, y1, x2, y2, distance;

printf("Input x1: ");

scanf("%f", &x1);

printf("Input y1: ");

scanf("%f", &y1);

printf("Input x2: ");

scanf("%f", &x2);

```
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;
}

3).

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..!");
    }
}

4)
#include <stdio.h>
int main()
```

```
{  
    printf("Not possible to create a triangle..!");  
}  
}  
4)  
#include <stdio.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++;  
        // increasing the number of years by 1  
        count++;  
    }  
  
    printf("Baby age: %d\n",cnt_baby);  
    printf("School age: %d\n",cnt_school);  
  
    printf("Adult age: %d\n",cnt_adult);  
    return 0;  
}  
5)  
#include <stdio.h>  
#include <stdlib.h>  
#include <time.h>
```

```
printf("Adult age: %d\n",cnt_adult);

return 0;
}

5)

#include <stdio.h>

#include <stdlib.h>
#include <time.h>

int main()

{
    int random_genNo=0,count=0,num;
    int shorttime;
    long longtime;

    longtime = time(NULL);
    shorttime = (unsigned) time/2;
    srand(shorttime);

    //generates 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;
        }
    }
}
```

~~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\nMaximum limit of attempt finished, GAME OVER FOR YOU!\n");
        break;
    }
}

return 0;
}
```