

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, gdistance;
```

```
printf("Input x1: ");
```

```
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 side1, side2 , side3, P;;
    printf("\nInput the first number: ");
    scanf("%f", &side1);
    printf("\nInput the second number: ");
    scanf("%f", &side2);
    printf("\nInput the third number: ");
    scanf("%f", &side3);

    if(side1 < (side2+side3) && side2 < (side1+side3) && side3 < (side2+side1))
    {
        P = side1+side2+side3;
        printf("\nPerimeter = %.1f\n", P);
    }
    else
    {
        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>
```

```
int main()
```

```
{
```

```
    int random_genNo=0,count=0,num;
```

```
    int shorttime;
```

```
    long longtime;
```

```
    longtime = time(NULL);
```

```
    shorttime = (unsigned) ltime/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;
}
else if(random_genNo<num){
    printf("Generated number is less than entered number, try again...");
}
else if(random_genNo>num){
    printf("Generated number is greater than entered number, try again...");
}

if(count==7){
    printf("\n\nMaximum limit of attempt finished, BAD LUCK!!!!\n");
    break;
}
}
```

```
convert days to
w Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins Do
main() : void
"C:\Users\OLOYEDE ADEMOLA\Favorites\Downloads\Desktop\cpr
Enter total days
1343
1343 = 3 years, 35 weeks, 3 days
Process returned 33 (0x21) execution time : 6.330 s
Press any key to continue.
```

```
distance betw
Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins
"C:\Users\OLOYEDE ADEMOLA\Favorites\Downloads\Desktop\cprogram
Input x1:12.2
Input y1:14.5
Input x2:16.9
Input y2:19.7
Distance between the said points:7.0093
Process returned 0 (0x0)   execution time : 42.133 s
Press any key to continue.
-
```

```
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Debug
"C:\Users\OLOYEDE ADEMOLA\Favorites\Downloads\Desktop\cprogramm
Enter three sides of the triangle:
1.2
4.4
2.3
Not possible to create a triangle...!
Process returned 0 (0x0)   execution time : 84.187 s
Press any key to continue.
-
```

```
"C:\Users\OLOYEDE ADEMOLA\Favorites\Downloads\Desktop\cprogramm
Enter three sides of the triangle:
3.0
4.0
6.0
Perimeter = 13.0
Process returned 0 (0x0)   execution time : 11.189 s
Press any key to continue.
```

```
"C:\Users\OLOYEDE ADEMOLA\Favorites\Downloads\Desktop\cprogramming
Guess a number from <0 to 100>:8
Generated number is greater than entered number, try again...
Guess a number from <0 to 100>:
7
Generated number is greater than entered number, try again...
Guess a number from <0 to 100>:90
Generated number is less than entered number, try again...
Guess a number from <0 to 100>:6
Generated number is greater than entered number, try again...
Guess a number from <0 to 100>:7
Generated number is greater than entered number, try again...
Guess a number from <0 to 100>:6
Generated number is greater than entered number, try again...
Guess a number from <0 to 100>:8
Generated number is greater than entered number, try again...
### Maximum limit of attempts reached, BAD LUCK !!!
Process returned 0 (0x0)   execution time : 131.323 s
Press any key to continue.
```

