

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 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()
{
    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) longtime/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 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;
}
```