1. Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of basic salary, and house rent allowance is 20% of basic salary. Write a program to calculate his gross salary.

```c
#include<stdio.h>
#include<conio.h>
void main()
{
    int gs,da,ra,bs;
    printf("enter the basic salary of ramesh : ");
    scanf("%d",&bs);

    da=(40*bs)/100;
    ra=(20*bs)/100;
    gs=bs+da+ra;
    printf("The gross salary of ramesh is %d",gs);
    getch();
}
```

2. The distance between two cities (in km) is input through the keyboard. Write a program to convert and print this distance in meters, feet, inches, and centimetres.

```c
#include<stdio.h>
#include<conio.h>
void main()
{
    float km,m,feet,inch,cm;
    printf("Enter the distance between two city in kilometer : ");
    scanf("%f",&km);
    m=km*1000;
    feet=km*3280;
    inch=km*39370.079;
    cm=km*100000;
    printf("distance between two city in meter : %f meter\n",m);
    printf("distance between two city in feet : %f feet\n",feet);
    printf("distance between two city in inch : %f inches\n",inch);
    printf("distance between two city in centimeter : %f cm\n",cm);
    getch();
}
```

3. If the marks obtained by a student in five different subjects are input through the keyboard, find out the aggregate marks and percentage marks obtained by the students. Assume that the maximum marks that can be obtained by a student in each subject is 100.

```c
#include<stdio.h>
#include<conio.h>
```

```
void main()
{
        int i,arr[5],total;
        float percent;

        printf("enter the marks obtain in 5 subjects ");
        for(i=1; i<6; i++)
        {
                scanf("%d",&arr[i]);
        }


        for(i=1.0; i<6; i++)
        {
                total=total+arr[i];
        }
        printf("aggregate marks : %d \n ",total-1);

        percent =((float)total-1)/5; //typecast total

        printf("total percentage : %f",percent);


        getch();
}
```

4. Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a program to convert this temperature into centigrade degrees.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    float fh,cel;
    printf("enter the temperature of the city in fahrenheit ");
    scanf("%f",&fh);
    cel=(fh-32)*0.5556;
    printf("temperature in celsius : %f degree celsius",cel);
    getch();
}
```

5. The length and breadth of a rectangle and radius of a circle are input through the keyboard. Write a program to calculate the area and perimeter of the rectangle, and the area and the circumference of the circle.

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
        float l,b,r,p,c;
```

```
        printf("enter length , breadth and radius : ");
        scanf("%f%f%f",&l,&b,&r);
        p=2*(l+b);
        c=2*3.14*pow(r,2);
        printf("\tThe peremeter of triangle : %f\n",p);
        printf("\tThe circumfrance of circle : %f",c);


        getch();
        return 0;
}
```

6. If a five-digit number is input through the keyboard, write a program to calculate the sum of its digit.

```c
#include<stdio.h>
#include <conio.h>
int main()
{
    int i,arr[i],sum;
    printf("\tenter 5 numbers :");
    for(i=1; i<6; i++)
    {
        scanf("%d",&arr[i]);
    }
    for(i=1; i<6; i++)
    {
        sum = sum+arr[i];
    }
    printf("the sum of 5 numbers is : %d",sum);
    getch();
    return 0;
}
```

7. If a five digit number is input through the keyboard, write a program to reverse the number.

```c
#include<stdio.h>
#include <conio.h>
int main()
{
    int i,arr[i];
    printf("enter 5 numbers :\n");
    for(i=1; i<6; i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("\treversing.....\n");
```

```c
    for(i=5; i>0; i--)
    {
            printf("%d ",arr[i]);
    }

    getch();
    return 0;
}
```

8. If a four digit number is input through the keyboard, write a program to obtain the sum of the first and last digit of this number.

```c
#include<stdio.h>
#include <conio.h>
int main()
{
    int n , fd , ld , sum;
    printf("enter four digit number :");
    scanf("%d",&n);
    ld = n%10;
    fd = n;
    while(n >= 10)
    {
            n = n/10;
    }
    fd = n;

    sum = fd+ld;
    printf("sum of first and last no. is : %d",sum);

    getch();
    return 0;
}
```

9. A cashier has currency notes of denominations 10, 50 and 100. If the amount to be withdrawn is input through the keyboard in hundreds, find the total number of currency notes of each denomination the cashiers will have to give to the withdrawer.

```c
#include<stdio.h>
#include<conio.h>
void main()
{
    int w,h,f,t;
    printf("enter amount to widtdrawn : ");
    scanf("%d",&w);

    h=w/100;
    f = (w-(h*100))/50;
```

```c
        t = (w-((h*100)+(f*50)))/10;

        printf("\thundred : %d \n",h);
        printf("\tfifty : %d \n",f);
        printf("\tten : %d ",t);


        getch();

}
```

10. If the total selling price of 15 items and the total profit earned on them is input through the keyboard, write a program to find the cost price of one item.

```c
#include<stdio.h>
#include <conio.h>
void main()
{
        int cp,sp,profit,cp1;
        printf("enter selling price of 15 items : \n");
        scanf("%d",&sp);
        printf("\ntotal profit earned : ");
        scanf("%d",&profit);
        cp=sp-profit;
        cp1=cp/15;
        printf("\n\tthe cp of one items : %d ",cp1);
        getch();
}
```