/*This program calculates the simple interest taking the data from the user*/

```
/*Date : 2080/01/27 Author: Shuvkant Chaudhary Phanait*/
#include<stdio.h>
int main(){
    float prin, roi, time, si;
    printf("Enter the principal amount:");
    scanf("%f", &prin);
    printf("Enter the rate of interest:");
    scanf("%f",&roi );
    printf("Enter the time :");
    scanf("%f", &time);
    si=(prin*time*roi)/100;
    printf("The principal amount is: Rs%.2f\nRate of interest is:
%.2f\nThe time period is: %.2f years", prin, roi, time);
    printf("\nThe required simple interest at the rate %.2f for %.2f years
is %.2f", roi, time, si);
}
```

/*This is the fun program*/

```
#include<stdio.h>
int main(){
    int number;
    printf("Enter the number:");
    scanf("%d", &number);
    printf("You have entered %d", number);
}
```

/*To find the sum of characters in ASCII Code*/

```
#include<stdio.h>
int main()
{
    char a, b;
    int z;
    a='x';
    b='y';
    z=a+b;
     printf("%d\n%d\n", a, b);
    printf("The sum is %d", z);
return 0;
}
```

/*Using exponential function*/

```
/*z=a^^b*/
#include<stdio.h>
#include<math.h>
int main(){
int number, power_to, value;
printf("Enter the number :");
scanf(" %d", &number);
printf("Enter the power:");
scanf(" %d", &power_to);
value=pow(number,power_to);
printf("The value is %d", value);
}
```

/*A simple program to calculate the gross net salary of the person*/

```
#include<stdio.h>
int main()
{
    float salary, dearness_allowance_amount, home_allowance,
net_salary;
    printf("Enter the basic salary:");
    scanf(" %f", &salary);
    dearness_allowance_amount=0.4*salary;
    home_allowance=20*salary;
    net_salary=salary+dearness_allowance_amount+home_allowance;
    printf("dearness_allowance_amount
=%.2f\nhome_allowance=%.2f\nnet_salary=%f.2",
dearness_allowance_amount, home_allowance, net_salary);
}
```

/*Converting km into meter, feet, inch*/

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

```
int main()
{
    float km, meter, feet, inch, centimeter;
    printf("Enter the distance in kilometer:");
    scanf("%f", &km);
    meter=1000*km;
    feet=3280.84;
    inch=km*39370.1;
    printf("%fkm in meter is %.2f",km, meter);
    printf("\n%fkm in feet is %.2f", km, feet);
    printf("\n%fkm in inch is %.2f", km, inch);
return 0;
}
```

***Find out the percentage of the marks obtained in five subjects*/**

```
#include<stdio.h>
int main(){
    int m1, m2, m3, m4, m5;
    float avg;
    float percent;
    printf("Enter the marks obtained in five subjects:");
    scanf("%d%d%d%d%d", &m1, &m2, &m3, &m4, &m5);
    avg=(m1+m2+m3+m4+m5)/5.0;
    percent=((m1+m2+m3+m4+m5)/500.00)*100;
    printf("The average marks is:%.2f", avg);
    printf("\nThe percentage obtained is %.2f", percent);
}
```

/*Change the fahrenheit temperature into celcius*/

```
#include<stdio.h>
int main(){
    float fahrenheit, celcius;
    printf("Enter the temperature in fahrenheit:");
    scanf("%f", &fahrenheit);
    celcius=((fahrenheit-32.0)/9)*5;
    printf("The temperature in fahrenheit scale is %.2f", fahrenheit);
    printf("\nthe temperature in celcius scale is %.2f", celcius);
}
```

/*To calculate the area and perimeter of rectange*/

```
/*Author: Shuvkant Chaudhary Phanait   2080/01/28*/
#include<stdio.h>
int main(){
    float length, breadth, area, perimeter;
    printf("Enter the length and breadth of the rectangle:");
    scanf(" %f%f", &length, &breadth);
    area=length*breadth;
    perimeter=2*(length+breadth);
    printf("The area of rectangle = %.2f", area);
    printf("\nThe perimeter of the rectangle is %.2f", perimeter);
}
```

/*Swapping the numbers*/

```
#include<stdio.h>
int main(){
    float number_1, number_2, variable;
    printf("Enter the value of number_1:");
    scanf("%f", &number_1);
    printf("Enter the value of number_2:");
    scanf("%f", &number_2);
    printf("\n\nBefore Swapping");
    printf("\nnumber_1=%.2f\nnumber_2=%.2f", number_1, number_2);
    variable=number_1;
    number_1=number_2;
    number_2=variable;
    printf("\n\nAfter Swapping:");
    printf("\nnumber_1=%.2f\nnumber_2=%.2f", number_1, number_2);
}
```

/*To find the sum of five digtit number entered by the user:*/

```
#include<stdio.h>
int main(){
    int number, i, j, sum, remainder, original_num;
    original_num=number;
```

```
    printf("Enter the five digit number:");
    scanf("%d", &number);
     original_num=number;
     sum=0;
    for(i=1; i<=5; i++){
        remainder=number%10;
        sum+=remainder;
        number=number/10;
    }
    printf("The entered number is:%d", original_num);
    printf("\nThe sum of digits of number is %d", sum);
}
```

/*To find the number of digits and the sum of digits of a entered number*/

```
#include<stdio.h>
int main(){
    int number, count,remainder, sum, original_number;
    int i, j;
    printf("Enter the number:");
    scanf("%d",&number);
    original_number=number;
    count=0;
    sum=0;
    do
    {
      number=number/10;
      count=count+1;  /* code */
    } while (number>=1/* condition */);
    printf("The number of digits is %d", count);

    for(i=1; i<=count; i++){
        remainder=original_number%10;
        sum=sum+remainder;
        original_number=original_number/10;
    }
    printf("\nThe sum of the digits of number is %d", sum);
}
```