```
enter 2 numbers
9 9
enter a number 1-10
5
remainder= 0
enter 0 to exit8
enter a number 1-10
9
numbers are equal
enter 0 to exit2
enter a number 1-10
3
product= 81
enter 0 to exit
```

```c
#include <stdio.h>
void main()
{
    int a,b,n,x=1;
    printf("enter 2 numbers\n");
    scanf("%d %d",&a,&b);
    while(x>0)
    {
        printf("enter a number 1-10 \n");
        scanf("%d",&n);
        switch(n)
        {
            case 1:printf("sum= %d",(a+b));
            break;
            case 2:printf("diff= %d",(a-b));
            break;
            case 3:printf("product= %d",(a*b));
            break;
            case 4:printf("quotient= %d",(a/b));
            break;
            case 5:printf("remainder= %d",(a%b));
            break;
            case 6:if(a>b)
            printf("%d greater than %d",a,b);
            else
            printf("%d smaller than %d",a,b);
            break;
            case 7:if(a<b)
            printf("%d smaller than %d",a,b);
            else
            printf("%d greater than %d",a,b);
```

```c
        case 8:if(a==b)
            printf("numbers are equal");
        else
            printf("numbers not equal");
        break;
        case 9:
        if(a!=b)
            printf("numbers not equal");
        else
            printf("numbers are equal");
        break;
        case 10:printf("square of numbers \n"
            );
        printf("%d\n",(a*a));
        printf("%d\n",(b*b));
        break;
        default:printf("invalid choice");
        }
    printf("\n");
    printf("enter 0 to exit");
    scanf("%d\n",&x);
    if(x==0)
    break;
    }
    }
```

```
enter 3 numbers
10 8 9
sum = 19
average = 9.500000
even numbers :
10
enter 3 numbers
11 7 20
sum = 31
average = 15.500000
even numbers :
20
enter 3 numbers
10 20 8
sum = 30
average = 15.000000
even numbers :
20
10
```

```c
#include <stdio.h>
float sumaver(int,int);
void printeven(int,int);
void main()
{
    int arr[3],n1=0,n2=0;
    float avg=0;
    printf("enter 3 numbers \n");
    for(int i=0;i<3;i++)
    scanf("%d ",&arr[i]);
    for(int i=0;i<3;i++)
    {
        if(arr[i]>n1)
        n1=arr[i];
    }
    for(int i=0;i<3;i++)
    {
        if((arr[i]>n2) &&(arr[i]<n1))
        n2=arr[i];
    }
    avg= sumaver(n1,n2);
    printf("average = %f\n",avg);
    printeven(n1,n2);
}
float sumaver(int a,int b)
{
    printf("sum = %d\n",(a+b));
    return((a+b)/2.0);
}
void printeven(int a,int b)
{
    printf("even numbers :\n");
    if(a%2==0)
    printf("%d\n",a);
    if(b%2==0)
    printf("%d\n",b);
}
```