```c
#include <stdio.h>
int main()
{
    int a,b;
    int ch;
do
{
    printf("enter 2 numbers\n");
    scanf("%d%d",&a,&b);
    printf("enter choice: 1.add 2.sub 3.multiply 4.divide 5.< 6.<= 7.== 8.!= 9.mod 10.>= 11.exit \n ");
    printf("note: for relational operator: if output 1 then true ,0 then false\n ");
    scanf("%d",&ch);
     switch(ch)
     {
        case 1:printf("sum:%d\n",a+b);
        break;
        case 2:printf("difference:%d\n",a-b);
        break;
        case 3:printf("product:%d\n",a*b);
        break;
        case 4:printf("quotient:%d\n",a/b);
        break;
        case 5:printf("a < b is : %d\n",a<b);
        break;
        case 6:printf("a <= b is : %d \n",a<=b);
        break;
        case 7:printf("a == b is : %d\n",a==b);
        break;
        case 8:printf("a != b is : %d \n",a!=b);
        break;
        case 9:printf("a mod b is: %d \n",a%b);
        break;
        case 10:printf("a >=b is :%d \n",a>=b);
        break;
        case 11:
        break;
        default:printf("invalid entry\n");
        break;
```

```c
39        case 9:printf("a mod b is: %d \n",a%b);
40        break;
41        case 10:printf("a >=b is :%d \n",a>=b);
42        break;
43        case 11:
44        break;
45        default:printf("invalid entry\n");
46        break;
47    }
48 } while(ch!=11);
49
50    return 0;
51 }
```

```
enter 2 numbers
12
9
enter choice: 1.add 2.sub 3.multiply 4.divide 5.< 6.<= 7.== 8.!= 9.mod 10.>= 11.exit
 note: for relational operator: if output 1 then true ,0 then false
 3
product:108
enter 2 numbers
2
4
enter choice: 1.add 2.sub 3.multiply 4.divide 5.< 6.<= 7.== 8.!= 9.mod 10.>= 11.exit
 note: for relational operator: if output 1 then true ,0 then false
 7
a == b is : 0
enter 2 numbers
1
2
enter choice: 1.add 2.sub 3.multiply 4.divide 5.< 6.<= 7.== 8.!= 9.mod 10.>= 11.exit
 note: for relational operator: if output 1 then true ,0 then false
 11

...Program finished with exit code 0
Press ENTER to exit console.
```