

```
1  #include<stdio.h>
2  void arithmetic(int a,int b);
3  void relational(int a,int b);
4  int main()
5  {
6      int a,b,ch;
7      printf("enter 2 nos\n");
8      scanf("%d%d",&a,&b);
9      do
10     {
11         printf("enter your choice\n");
12         printf("menu: 1.arithmetic 2.relational 3.exit\n");
13         scanf("%d",&ch);
14         switch(ch)
15         {
16             case 1:
17                 arithmetic(a,b);
18                 break;
19             case 2:
20                 relational(a,b);
21                 break;
22             case 3:
23                 printf("exit\n");
24                 break;
25             default:
26                 printf("enter correct input\n");
27         }
28     }while(ch!=3);
29
30     return(0);
31 }
32
33
```

```
33
34 void arithmetic(int a,int b)
35 {
36     int ch,ans;
37     printf("enter your choice\n");
38     printf("menu: 1.add 2.multiply 3.division 4.modulus 5.sub \n");
39     scanf("%d",&ch);
40     switch(ch)
41     {
42         case 1:
43             printf("result= %d\n",a+b);
44             break;
45         case 2:
46             printf("result=%d\n",a*b);
47             break;
48         case 3:
49             printf("result=%d\n",a/b);
50             break;
51         case 4:
52             printf("result=%d\n",a-b);
53             break;
54         case 5:
55             printf("result=%d\n",a%b);
56             break;
57         default:
58             printf("enter correct input\n");
59     }
60 }
61
62
```

```

62
63 void relational(int a,int b)
64 {
65     int ch;
66     printf("enter your choice\n");
67     printf("menu: 1.greater than 2.lessor than 3.equal to 4.greater than equal to 5.lessor than equal to\n");
68     scanf("%d",&ch);
69     switch(ch)
70     {
71         case 1:
72             if(a>b)
73                 printf("%d is greater than %d\n",a,b);
74             else
75                 printf("%d is not greater than %d\n",a,b);
76             break;
77         case 2:
78             if(a<b)
79                 printf("%d is lesser than %d\n",a,b);
80             else
81                 printf("%d is not lesser than %d\n",a,b);
82             break;
83         case 3:
84             if(a==b)
85                 printf("%d is equal to %d\n",a,b);
86             else
87                 printf("%d is not equal to %d\n",a,b);
88             break;
89         case 4:
90             if(a>=b)
91                 printf("%d is greater than equal %d\n",a,b);
92             else
93                 printf("%d is not greater than nor equal %d\n",a,b);
94             break;
95         case 5:
96             if(a<=b)
97                 printf("%d is lesser than %d\n",a,b);
98             else
99                 printf("%d is not lesser than or equal to %d\n",a,b);
100            break;
101        default:
102            printf("enter correct output\n");
103    }
104 }
105 }
106

```

input

```

enter 2 nos
4
5
enter your choice
menu: 1.arithmetic 2.relational 3.exit
1
enter your choice
menu: 1.add 2.multiply 3.division 4.modulus 5.sub
2
result=20
enter your choice
menu: 1.arithmetic 2.relational 3.exit
2
enter your choice
menu: 1.greater than 2.lessor than 3.equal to 4.greater than equal to 5.lessor than equal to
1
4 is not greater than 5
enter your choice
menu: 1.arithmetic 2.relational 3.exit
3
exit

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

```

avgeven.c

```
1  #include<stdio.h>
2  float sumaver(int a,int b);
3  void printeven(int a,int b);
4  int main()
5  {
6      float x;
7      int a,b,c;
8      printf("enter 3 nos\n");
9      scanf("%d %d %d",&a,&b,&c);
10     if(a>c && b>c)
11     {
12         x=sumaver(a,b);
13         printf("avg of %d & %d is %f\n",a,b,x);
14         printeven(a,b);
15     }
16     else if(a>b && c>b)
17     {
18         x=sumaver(a,c);
19         printf("avg of %d & %d is %f\n",a,c,x);
20         printeven(a,c);
21     }
22     else if(b>a && c>a)
23     {
24         x=sumaver(b,c);
25         printf("avg of %d & %d is %f\n",b,c,x);
26         printeven(b,c);
27     }
28
29 }
30
31
32 }
33
```

```

34 float sumaver(int a,int b)
35 {
36     int s,avg;
37     s=a+b;
38     printf("sum of %d and %d =%d\n",a,b,s);
39     avg=s/2.0;
40     return avg;
41 }
42
43 void printeven(int a,int b)
44 {
45
46     if(a>b)
47     {
48         printf("even nos from %d to %d\n",b,a);
49         for(int i=b;i<=a;i++)
50         {
51             if(i%2==0)
52                 printf("%d\n",i);
53
54         }
55     }
56     else
57     {
58         printf("even nos from %d to %d\n",a,b);
59         for(int i=a;i<=b;i++)
60         {
61             if(i%2==0)
62                 printf("%d\n",i);
63
64         }
65     }
66 }
67
68 }
69
70 }
71

```

input

```

enter 3 nos
3
4
5
sum of 4 and 5 =9
avg of 4 & 5 is 4.000000
even nos from 4 to 5
4

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

```