

CODE

```
1 #include<stdio.h>
2 #include<math.h>
3 #include<ctype.h>
4
5
6 void operation(int flag );
7
8 int main()
9 {
10     int k=1;
11     operation(k);
12     return 0;
13 }
14
15 void operation(int flag)
16 {
17     int l; float x, y; char C;
18
19     if(flag==1)
20     {
21         printf("\nEnter the two numbers :\n");
22         scanf("%f%f", &x, &y);
23
24         printf("\nEnter the Operation: \n <A: Addition> <S:Subtraction> <M:Multiplication> <D:Division>\n");
25         printf("\n <U:To check greater> <L:To check lower> <O:To compare> <P:To check not Equal>\n");
26         printf("\n <Q:remainder> <R:To find Power>\n");
27         fflush(stdin);
28         scanf(" %c", &C);
29         switch(toupper(C))
30         {
31             case 'A': printf("\n%.2f + %.2f = %.2f\n",x,y,x+y);
32                     break;
33             case 'S': printf("\n%.2f - %.2f = %.2f\n",x,y,x-y);
34                     break;
35             case 'M': printf("\n%.2f x %.2f = %.2f\n ",x,y,x*y);
36                     break;
37             case 'D': printf("\n%.2f / %.2f = %.2f\n ",x,y,x/y);
38                     break;
39             case 'U': if(x>y)
40                         printf("\n%.2f > %.2f\n",x,y);
41                     else
42                         printf("\n%.2f !> %.2f\n ",x,y);
43                     break;
44             case 'L': if(x<y)
45                         printf("\n%.2f < %.2f\n",x,y);
46                     else
47                         printf("\n%.2f !< %.2f\n ",x,y);
48                     break;
49             case 'O': if(x==y)
50                         printf("\n%.2f == %.2f\n",x,y);
51                     else
52                         printf("\n%.2f != %.2f\n ",x,y);
53                     break;
54             case 'P': if(x!=y)
55                         printf("\n%.2f != %.2f\n",x,y);
56                     else
57                         printf("\n%.2f == %.2f\n ",x,y);
58                     break;
59             case 'Q': printf("\nRemainder is %d\n ",(int)x%(int)y);
60                     break;
61             case 'R': printf("\n%.2f to the power of %.2f is %.2f\n ",x,y,pow(x,y));
62                     break;
63             default: printf("\nInput Error!\n");
64         }
65     }
66     printf("\nDo you wish to continue : \n(yes)1 \n(No)Any other key? ");
67     scanf("%d", &l);
68
69     operation(l);
70 }
71
72 }
```

OUTPUT

```
Enter the two numbers :
5
3

Enter the Operation:
<A: Addition> <S:Subtraction> <M:Multiplication> <D:Division>
<U:To check greater> <L:To check lower> <O:To compare> <P:To check not Equal>
<Q:remainder> <R:To find Power>
m

5.00 x 3.00 = 15.00

Do you wish to continue :
(yes)1      (No)Any other key?1

Enter the two numbers :
5.7
24

Enter the Operation:
<A: Addition> <S:Subtraction> <M:Multiplication> <D:Division>
<U:To check greater> <L:To check lower> <O:To compare> <P:To check not Equal>
<Q:remainder> <R:To find Power>
1

5.70 < 24.00

Do you wish to continue :
(yes)1      (No)Any other key?f

Process returned 0 (0x0)   execution time : 32.754 s
Press any key to continue.
```