

# 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
20     if(flag==1)
21     {
22         printf("\nEnter the two numbers :\n");
23         scanf("%f%f",&x,&y);
24
25         printf("\nEnter the Operation: \n <A: Addition>\t<S:Subtraction>\t<M:Multiplication>\t<D:Division>");
26         printf("\n <U:To check greater>\t<L:To check lower>\t<O:To compare>\t<P:To check not Equal>");
27         printf("\n <Q:remainder>\t<R:To find Power>\n");
28         fflush(stdin);
29         scanf("%c",&C);
30         switch(toupper(C))
31         {
32             case 'A': printf("\n%.2f + %.2f = %.2f\n",x,y,x+y);
33                         break;
34             case 'S': printf("\n%.2f - %.2f = %.2f\n",x,y,x-y);
35                         break;
36             case 'M': printf("\n%.2f x %.2f = %.2f\n",x,y,x*y);
37                         break;
38             case 'D': printf("\n%.2f / %.2f = %.2f\n",x,y,x/y);
39                         break;
40             case 'U': if(x>y)
41                         printf("\n%.2f > %.2f\n",x,y);
42                         else
43                         printf("\n%.2f !=> %.2f\n",x,y);
44                         break;
45             case 'L': if(x<y)
46                         printf("\n%.2f < %.2f\n",x,y);
47                         else
48                         printf("\n%.2f !=< %.2f\n",x,y);
49                         break;
50             case 'O': if(x==y)
51                         printf("\n%.2f == %.2f\n",x,y);
52                         else
53                         printf("\n%.2f != %.2f\n",x,y);
54                         break;
55             case 'P': if(x!=y)
56                         printf("\n%.2f != %.2f\n",x,y);
57                         else
58                         printf("\n%f == %f\n",x,y);
59                         break;
60             case 'Q': printf("\nRemainder is %d\n", (int)x%(int)y);
61                         break;
62             case 'R': printf("\n%.2f to the power of %.2f is %.2f\n",x,y,pow(x,y));
63                         break;
64             default: printf("\nInput Error!\n");
65         }
66         printf("\nDo you wish to continue : \n (yes)1 \t (No)Any other key?");
67         scanf("%d",&l);
68
69         operation(l);
70     }
71     return ;
72 }
73
```

# 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>

l
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.
```