CODE

```c
#include<stdio.h>
#include<math.h>
#include<ctype.h>


void operation(int flag );

int main()
{
    int k=1;
    operation(k);
    return 0;
}

void operation(int flag)
{
    int l; float x, y; char C;


      if(flag==1)
    {
        printf("\nEnter the two numbers :\n");
        scanf("%f%f",&x,&y);

        printf("\nEnter the Operation: \n <A: Addition>\t<S:Subtraction>\t<M:Multiplication>\t<D:Division>");
        printf("\n <U:To check greater>\t<L:To check lower>\t<O:To compare>\t<P:To check not Equal>");
        printf("\n <Q:remainder>\t<R:To find Power>\n");
        fflush(stdin);
        scanf("%c",&C);
        switch(toupper(C))
        {
         case 'A': printf("\n%.2f + %.2f = %.2f\n",x,y,x+y);
                   break;
         case 'S': printf("\n%.2f - %.2f = %.2f\n",x,y,x-y);
                   break;
         case 'M': printf("\n%.2f x %.2f = %.2f\n ",x,y,x*y);
                   break;
         case 'D': printf("\n%.2f / %.2f = %.2f\n ",x,y,x/y);
                   break;
         case 'U': if(x>y)
                     printf("\n%.2f > %.2f\n",x,y);
                   else
                     printf("\n%.2f !> %.2f\n ",x,y);
                   break;
         case 'L': if(x<y)
                     printf("\n%.2f < %.2f\n",x,y);
                   else
                     printf("\n%.2f !< %.2f\n ",x,y);
                   break;
         case 'O': if(x==y)
                     printf("\n%.2f == %.2f\n",x,y);
                   else
                     printf("\n%.2f != %.2f\n ",x,y);
                   break;
         case 'P': if(x!=y)
                     printf("\n%.2f != %.2f\n",x,y);
                   else
                     printf("\n%f == %f\n ",x,y);
                   break;
         case 'Q': printf("\nRemainder is %d\n ",(int)x%(int)y);
                   break;
         case 'R': printf("\n%.2f to the  power of %.2f is %.2f\n ",x,y,pow(x,y));
                   break;
        default: printf("\nInput Error!\n");
        }
        printf("\nDo you wish to continue :\n (yes)1 \t(No)Any other key?");
        scanf("%d",&l);

        operation(l);
    }
    return ;
}
```

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.
```