

```
/*
Thomas Gibbons
Profit.c
Lab 1
Problem 3
*/
#include <stdio.h>
#include <math.h>

int main(void)
{
    /*Data*/
    float num1,num2, result;
    int error=1;
    char op;

    /*Loop while there's an error*/
    while(error==1)
    {
        error=0;

        /*Input*/
        printf("\nValue 1: ");
        scanf("%f",&num1);
        printf("\nOperator: ");
        scanf(" %c",&op);
        printf("\nValue 2: ");
        scanf("%f",&num2);

        /*Choose operation based on input op*/
        switch(op) {

            /*add*/
            case '+' :
                result=num1+num2;
                break;
            /*subtract*/
            case '-' :
                result=num1-num2;
                break;
            /*multiply*/
            case '*' :
                result=num1*num2;
                break;
            case '/' :
            {
                /*divide*/
                if(num2!=0)
                    result=num1/num2;
                /*error check*/
                else
                {
                    error=1;
                }
            }
        }
    }
}
```

```
        printf("\Can't divide by zero\nTry again\n" );
    }

    }
    break;
default :
{
    /*error message and restart loop*/
    printf("\nInvalid operator\nTry again\n" );
    error=1;
}
}
}
/*output*/
printf("%f %c %f = %f\n",num1,op,num2,result);
return 0;
}
```