```c
#include <stdio.h>

int main() {
    printf("Enter an operator (+, -, *, /): ");
    char operator;
    scanf("%c", &operator);

    float operand[2];

    printf("Enter two operands: ");
    scanf("%f %f", &operand[0], &operand[1]);

    switch(operator) {
        case '+':
            printf("%f %c %f = %f", operand[0], operator, operand[1], operand[0] + operand[1]);
            break;
        case '-':
            printf("%f %c %f = %f", operand[0], operator, operand[1], operand[0] - operand[1]);
            break;
        case '*':
            printf("%f %c %f = %f", operand[0], operator, operand[1], operand[0] * operand[1]);
            break;
        case '/':
            printf("%f %c %f = %f", operand[0], operator, operand[1], operand[0] / operand[1]);
            break;
        default:
            printf("Operator incorrect");
    }

    printf("\n");
}
```

```
thathsara@thathsaras-MacBook-Pro labsheet3 % make 1
gcc q1.c -o q1
./q1
Enter an operator (+, -, *, /): *
Enter two operands: 50 10
50.000000 * 10.000000 = 500.000000
thathsara@thathsaras-MacBook-Pro labsheet3 %
```

```c
#include <stdio.h>

int main() {
    printf("Enter a letter: ");
    char letter;
    scanf("%c", &letter);

    if(97 <= letter && letter <= 122)
        printf("You have entered a LOWERCASE letter\n");
    else if(65 <= letter && letter <= 90)
        printf("You have entered an UPPERCASE letter\n");
    else
        printf("Not a alphabetic character");
}
```

```
thathsara@thathsaras-MacBook-Pro labsheet3 % make 2
gcc q2.c -o q2
./q2
Enter a letter: 3
Not a alphabetic character
```

```c
#include <stdio.h>

int main() {
    printf("Unit price: ");
    float price;
    scanf("%f", &price);

    printf("Quantity: ");
    float quantity;
    scanf("%f", &quantity);

    float discount_percentage;
    if(quantity > 160)
        discount_percentage = 20;
    else if(quantity > 120)
        discount_percentage = 15;
    else
        discount_percentage = 0;

    printf("Revenue: %f\n", price * quantity * (100 - discount_percentage) / 100);
}
```

```
thathsara@thathsaras-MacBook-Pro labsheet3 % make 3
gcc q3.c -o q3
./q3
Unit price: 10
Quantity: 1000
Revenue: 8000.000000
```

```c
#include <stdio.h>

int main() {
    printf("Enter a letter: ");
    char letter;
    scanf("%c", &letter);

    if(97 <= letter && letter <= 122)
        printf("You have entered a LOWERCASE letter\n");
    else if(65 <= letter && letter <= 90)
        printf("You have entered an UPPERCASE letter\n");
    else
        printf("Not a alphabetic character\n");
}
```

```
thathsara@thathsaras-MacBook-Pro labsheet3 % make 4
gcc q4.c -o q4
./q4
What is your height in METERS: 1.78
What is your weight in KILOGRAMS: 71
Normal Weight
```