```c
// C Program to make a Simple Calculator
// Using switch case
#include <stdio.h>
#include <stdlib.h>

// Driver code
int main()
{
    char ch;
    double a, b;
    while (1) {
        printf("Enter an operator (+, -, *, /), "
            "if want to exit press x: ");
        scanf(" %c", &ch);

        // to exit
        if (ch == 'x')
            exit(0);
        printf("Enter two first and second operand: ");
        scanf("%lf %lf", &a, &b);

        // Using switch case we will differentiate
        // operations based on different operator
        switch (ch) {

        // For Addition
        case '+':
            printf("%.1lf + %.1lf = %.1lf\n", a, b, a + b);
            break;

        // For Subtraction
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```c
        case '-':
                printf("%.1lf - %.1lf = %.1lf\n", a, b, a - b);
                break;

        // For Multiplication
        case '*':
                printf("%.1lf * %.1lf = %.1lf\n", a, b, a * b);
                break;

        // For Division
        case '/':
                printf("%.1lf / %.1lf = %.1lf\n", a, b, a / b);
                break;

        // If operator doesn't match any case constant
        default:
                printf(
                        "Error! please write a valid operator\n");
        }

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