

Assignment  
On computer  
programming  
submitted by  
:24BCA10491

```
#include <stdio.h>
```

```
int main() {
```

```
    char operator;
```

```
    float num1, num2, result;
```

```
    // Displaying options to the user
```

```
    printf("Simple Calculator\n");
```

```
    printf("Enter an operator (+, -, *, /): ");
```

```
    scanf(" %c", &operator);
```

```
    // Inputting numbers
```

```
    printf("Enter two operands: ");
```

```
    scanf("%f %f", &num1, &num2);
```

```
    // Performing calculations using switch case
```

```
    switch (operator) {
```

```
        case '+':
```

```
            result = num1 + num2;
```

```
            printf("%.2f + %.2f = %.2f\n", num1, num2, result);
```

```
            break;
```

```
        case '-':
```

```
    result = num1 - num2;
    printf("%.2f - %.2f = %.2f\n", num1, num2, result);
    break;
case '*':
    result = num1 * num2;
    printf("%.2f * %.2f = %.2f\n", num1, num2, result);
    break;
case '/':
    if (num2 != 0) {
        result = num1 / num2;
        printf("%.2f / %.2f = %.2f\n", num1, num2, result);
    } else {
        printf("Error: Division by zero is not allowed.\n");
    }
    break;
default:
    printf("Error: Invalid operator.\n");
    break;
}

return 0;
}
```

## OUTPUT

Simple Calculator

Enter an operator (+, -, \*, /): -

Enter two operands: 12 13

$12.00 - 13.00 = -1.00$

Simple Calculator

Enter an operator (+, -, \*, /): +

Enter two operands: 5 6

$5.00 + 6.00 = 11.00$

Simple Calculator

Enter an operator (+, -, \*, /): \*

Enter two operands: 5 8

$5.00 * 8.00 = 40.00$

Simple Calculator

Enter an operator (+, -, \*, /): /

Enter two operands: 10 2

$10.00 / 2.00 = 5.0$