c program to create simple calculator using switch case and function for every function

#include <stdio.h>

float add(float num1, float num2);

float subtract(float num1, float num2);

float multiply(float num1, float num2);

float divide(float num1, float num2);

int main() {

int choice;

float num1, num2, result;

printf("Simple Calculator Menu:\n");

printf("1. Addition\n");

printf("2. Subtraction\n");

printf("3. Multiplication\n");

printf("4. Division\n");

printf("Enter your choice (1-4): ");

scanf("%d", &choice);

printf("Enter the first number: ");

scanf("%f", &num1);

printf("Enter the second number: ");

scanf("%f", &num2);

switch (choice) {

case 1:

result = add(num1, num2);

printf("Result: %.2f\n", result);

break;

case 2:

result = subtract(num1, num2);

printf("Result: %.2f\n", result);

break;

case 3:

result = multiply(num1, num2);

printf("Result: %.2f\n", result);

break;

case 4:

if (num2 != 0) {

result = divide(num1, num2);

printf("Result: %.2f\n", result);

} else {

printf("Error: Division by zero is not allowed.\n");

}

break;

default:

printf("Invalid choice.\n");

break;

}

return 0;

}

float add(float num1, float num2) {

return num1 + num2;

}

float subtract(float num1, float num2) {

return num1 - num2;

}

float multiply(float num1, float num2) {

return num1 \* num2;

}

float divide(float num1, float num2) {

return num1 / num2;

}