

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

```
void add() {
```

```
    double num1, num2;
```

```
    printf("Enter first number: ");
```

```
    scanf("%lf", &num1);
```

```
    printf("Enter second number: ");
```

```
    scanf("%lf", &num2);
```

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

```
}
```

```
void subtract() {
```

```
    double num1, num2;
```

```
    printf("Enter first number: ");
```

```
    scanf("%lf", &num1);
```

```
    printf("Enter second number: ");
```

```
    scanf("%lf", &num2);
```

```
    printf("%.2lf - %.2lf = %.2lf\n", num1, num2, num1 - num2);
```

```
}
```

```
void multiply() {
```

```
    double num1, num2;
```

```
    printf("Enter first number: ");
```

```
    scanf("%lf", &num1);
```

```
    printf("Enter second number: ");
```

```
scanf("%lf", &num2);

printf("%.2lf * %.2lf = %.2lf\n", num1, num2, num1 * num2);

}
```

```
void divide() {

    double num1, num2;

    printf("Enter first number: ");

    scanf("%lf", &num1);

    printf("Enter second number: ");

    scanf("%lf", &num2);

    if (num2 != 0)

        printf("%.2lf / %.2lf = %.2lf\n", num1, num2, num1 / num2);

    else

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

}
```

```
int main() {

    int choice;

    printf("Simple Calculator\n");

    printf("1. Addition\n");

    printf("2. Subtraction\n");

    printf("3. Multiplication\n");

    printf("4. Division\n");

    printf("5. Exit\n");

    while (1) {

        printf("Enter your choice: ");
```

```
scanf("%d", &choice);  
switch (choice) {  
    case 1:  
        add();  
        break;  
    case 2:  
        subtract();  
        break;  
    case 3:  
        multiply();  
        break;  
    case 4:  
        divide();  
        break;  
    case 5:  
        printf("Exiting...\n");  
        return 0;  
    default:  
        printf("Invalid choice. Please try again.\n");  
}  
}  
return 0;  
}
```