```
1 #include <math.h>
 2 #include "FehlerWert.h"
 4 FehlerWert::FehlerWert(double nominal value, double std dev) {
        this->nominal_value = nominal_value;
        this->std dev = std dev;
 7 };
 8
 9 FehlerWert::FehlerWert(const FehlerWert &other) {
        this->nominal_value = other.nominal_value;
this->std_dev = other.std_dev;
10
11
12 }
13
14 FehlerWert FehlerWert::operator+(const FehlerWert &other) {
15
        return FehlerWert(
                 this->nominal value + other.nominal_value,
sqrt(this->std_dev * this->std_dev + other.std_dev * other.std_dev)
16
17
        );
19 };
20
21 FehlerWert FehlerWert::operator*(const FehlerWert &other) {
22
        double nominal_value, std_dev;
nominal_value = this->nominal_value * other nominal_value;
23
24
        std_dev = sqrt(
                (this->std dev / this->nominal_value) * (this->std_dev / this->nominal_value)
25
                          + (other.std_dev / other.nominal_value) * (other.std_dev / other.nominal_value)
26
27
28
        FehlerWert tmp(nominal value, std dev);
29
        return tmp;
30 };
31
32 FehlerWert &FehlerWert::operator=(const FehlerWert &other) {
       if (this != &other) {
   this->nominal_value = other.nominal_value;
   this->std_dev = other.std_dev;
33
34
35
36
        return *this;
39 };
40
41 double FehlerWert::wert() {
42
        return this->nominal_value;
43 };
44
45 double FehlerWert::absolut() {
        return this->std dev;
46
47 };
49 double FehlerWert::relativ() {
50
        return this->std_dev / this->nominal_value;
51 };
52
53 FehlerWert::FehlerWert() {
54
55 };
```