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/*

Uge 3 opgave 2
This is a simple calculator taking two numbers and multiply or add them
together.
Gruppe "taem awesome" (ja det er stavet forkert med vilje)
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*/

#include <stdio.h>
#include <math.h>

//Function prototypes
double addition(double a, double b);
double multiplication(double a, double b);

int main (void){

    printf("Velkommen til lommeregneren!\n");

    double tal1;
    double tal2;
    double res;

    printf("Indtast det første tal: ");
    scanf(" %lf", &tal1);

    printf("Indtast det andet tal: ");
    scanf(" %lf", &tal2);

    printf("%.2lf\n", tal1);
    printf("%.2lf\n", tal2);

    printf("Should they be:\n1: Added together? \n2: Or multiplied?\n");

    // Training the use of enums...
    enum brugerValg {intet, multiplied, added};
    enum brugerValg currentValg = noget;

    while (currentValg != multiplied && currentValg != added){
        int valg;
        scanf(" %d", &valg);
        if (valg == 1){
            currentValg = added;
        } else if (valg == 2) {
            currentValg = multiplied;
        } else {
            printf("Wrong answer try again!\n");
        }
    }

    // Doing the calculations
    switch (currentValg) {
        case added:
            res = addition(tal1,tal2);
            break;
        case multiplied:
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        res = multiplication(tal1,tal2);
        break;
    case intet:
        break;
}

// Print result
printf("%.2lf\n",res);

return(0);
}

// Takes two arguments and returns sum
double addition(double a, double b){
    return a + b;
}

// Takes two arguments and returns product.
double multiplication(double a, double b){
    return a * b;
}
```