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#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
#define REIMBURSTMENT_PER_MILE 0.35
/* Title: Milage Reimburstment
Author: Adolfo Gante
Date: 02/06/2020
Description: Milage Reimburstment Calculator
*/

double totalMilesTravled(double endOdometer, double startOdometer);
void displayResults(double milesTravled, double reimburstment);
double money_i_owe_you(double milesTraveled);

int main(void)
{
    //Variable Declerations

    double startOdometer = 0;
    double endOdometer = 0;
    double milesTraveled = 0;
    double reimburstment = 0;

    //Get user inputs by asking nicely

    printf("Please input the number of miles on the odometer traveled
before your trip.\n");
    scanf("%lf", &startOdometer);

    printf("Please input the number of miles traveled on the odometer at
the end of your trip.\n");
    scanf("%lf", &endOdometer);

    //The calculations: (endOdometer - startOdometer) = total miles
traveled

    milesTraveled = totalMilesTravled(endOdometer, startOdometer);

    reimburstment = milesTraveled * REIMBURSTMENT_PER_MILE;

    //Results

    displayResults(milesTraveled, reimburstment);
}

double totalMilesTravled(double endOdometer, double startOdometer)
{
    double milesTraveled = 0.0;
    milesTraveled = endOdometer - startOdometer;

    return(milesTraveled);
}

double money_i_owe_you(double milesTraveled)
{

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    double reimburstment = 0.0;
    reimburstment = milesTraveled * REIMBURSTMENT_PER_MILE;

    return(reimburstment);
}

void displayResults(double milesTraveled, double reimburstment)
{
    printf("You travled: %lf miles\n", milesTraveled);
    printf("Your reimburstment is: $ %f", reimburstment);
}
```