Aaron Board

6/8/16

Homework 1

Problem:

We need to develop a program that to calculate the total cost of a car rental. We need to get the renter’s name and the miles before and after the rental. We need to calculate the total miles used by subtracting the end miles by the beginning miles and multiply that by 0.12. then we need to multiply the number of days the car was rented by 15 then ad the 2 numbers to get the total cost. Then we need to output the information.

Inputs

* Name
* Miles before rental
* Miles after rental
* Number of days for the rental

Outputs

* Name
* Total miles used
* Mileage cost
* Rental cost
* Total cost

Data Types

* Name = string
* Miles before and after = float
* Number of days = integer
* Total miles used = float
* Mileage cost = float
* Rental cost = float
* Total cost = float

30,000 foot view

* Gather info
  + Ask for name
    - Input name
  + Ask for miles before rental
    - Input miles
  + Ask for miles after rental
    - Input miles
  + Ask for number of days for the rental
    - Input days
* Calculate total cost
  + Calculate total miles
    - Miles\_after-miles\_before
  + Calculate mileage cost
    - Total\_miles \* 0.12
  + Calculate daily cost
    - Days \* 15
  + Calculate total cost
    - Daily\_cost + mileage\_cost
* Output data
  + Print info
    - Print name
    - Print total\_miles
    - Print mileage\_cost
    - Print daily\_cost
    - Print total\_cost