Jesse Watson

CISS 160

9-27-2013

Car Comparison

**Goal:** To make a program that will compare 2 vehicles and let the user know which the better deal is.

**Input:** The user will input the following:

1. Year
2. Make
3. Model
4. Published MPG
5. Initial Purchase Price
6. Annual Repair Cost

**Processing:** When the user fills in all the fields my program will

1. Take the yearly mpg fixed amount divided by the mpg user input amount and multiply that by the fixed $3.50 a gallon amount to determine yearly fuel costs
2. Than it will take the yearly fuel cost and multiply it by 5
3. Than take the insurance amount entered multiply it by 5
4. Than take the yearly insurance rate and multiply it by 5
5. Than take the yearly repair cost and multiply it by 5
6. Then add all the numbers together
7. The equation for this is: (((mpg / inputCar2) \* pricePerGallon) \* 5) + (repairCar2 \* 5) + (insuranceCar2 \* 5) + CarCost2;

**Output:** The result will be:

1. Display a 1 year fuel cost for vehicle 1.
2. Display a 1 year fuel cost for vehicle 2.
3. Display a 5 year total cost of all inputs for vehicle 1.
4. Display a 5 year total cost of all inputs for vehicle 2.

**Testing:** To test this program I will select 3 vehicles from the list of vehicles supplied and test my equation manually. If it checks all 3 times than the program is functioning properly.