```
%Aristos Athens
%ME 182
%Transportation Planning Assignment

clear all
clc
close all
```

Claire + Lease Info

```
leaseMonths = 36;
milesPerDay = 33;
gasCostPerGallon = 3.033;
depreciationRate = 0.15;
```

Analysis

```
[data,carNames] = xlsread("Vehicles_Price_Comparison.xlsx");
carNames = carNames(2:length(carNames));
monthlyPaymentData = [];

for i = 1:length(data)

    MSRP = data(i,1);
    fuelEfficiency = data(i,2);
    EV = data(i,3);
    taxCredit = data(i,4);

    monthlyPayment =
 findMonthlyPayment(EV,milesPerDay,gasCostPerGallon,leaseMonths,MSRP,depreciationR
    monthlyPaymentData= [monthlyPaymentData; monthlyPayment];

end
%Sort the data in ascending order
[sortedData,indeces] = sort(monthlyPaymentData);
sortedCarNames = carNames(indeces);
%Give the monthly price and name of 3 cheapest cars
sortedData(1)
sortedCarNames(1)
sortedData(2)
sortedCarNames(2)
sortedData(3)
sortedCarNames(3)
```

```
ans =

  194.7590
```

```
ans =
```

```
  1×1 cell array

    {'2017 fortwo '}

ans =

  305.4746

ans =

  1×1 cell array

    {'2017 Volkswagen e-Golf EV'}

ans =

  307.2728

ans =

  1×1 cell array

    {'2017 Ford Focus EV'}
```

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