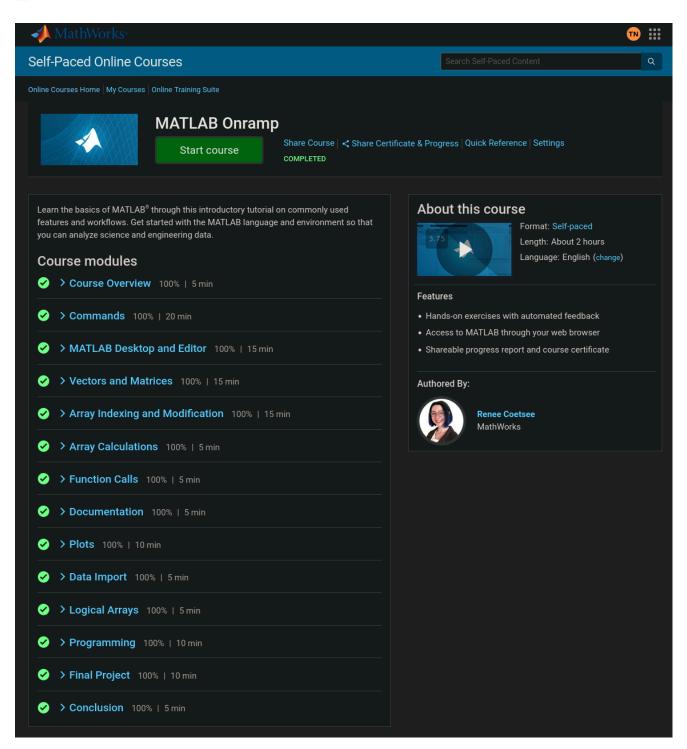
HW 3

1



2

[%] Headers would normally go here. Leave them out since they are % problematic in MATLAB Grader.

3

```
costs = [32559, 29625, 24838, 23899];
intownEff = [54, 51, 35, 34];
highwayEff = [52, 47, 42, 39];
totalPrice = costs + avgGas .* ownYears .* (avgintownMiles ./ intownEff
+ avghighwayMiles ./ highwayEff);
name = input("What is your name? ", "s");
ownYears = input("How many years do you plan to own this car? ");
avgGas = input("What is the average price of gas? ");
avgintownMiles = input("How many miles do you plan to drive in-town per
year? ");
avghighwayMiles = input("How many miles do you plan to drive on the
highway per year? ");
fprintf("\n\nPotential car analysis for %s:\n", name);
fprintf(" owning the car %i years\n", ownYears);
fprintf(" average yearly in-town miles: %i\n", avgintownMiles);
fprintf(" average yearly highway miles: %i\n", avghighwayMiles);
fprintf(" average cost of gasoline: %.2f\n\n", avgGas);
arrayfun(@(x) fprintf("Car %i: $%i\n", x, round(totalPrice(x))),
1:length(totalPrice));
```