Your coefficient of determination is 0.841, indicating that approximately 84.1% of the dependent variable (mpg) variation is explained by the independent variables (hp and wt.). This is slightly higher than my coefficient of determination of 0.838, indicating that your model may be more effective in explaining the variation in mpg.

The results of your t-tests are consistent with mine. Both our tests indicate that the coefficients for hp and wt. are statistically significant at the 5% level of significance, with p-values less than 0.05.

Based on the available information, I recommend this regression model to the car rental company. The model has a high coefficient of determination, indicating that it effectively explains the variation in mpg. The t-tests also suggest that both independent variables (hp and wt.) have a statistically significant effect on the dependent variable (mpg), which supports the model's usefulness for predicting fuel efficiency. However, there may be other factors that the company should consider in addition to horsepower and weight when expecting fuel efficiencies, such as the age of the vehicle, the type of fuel used, and driving conditions.

Response 2:

1. The coefficient of determination (R-squared) is 0.82, which indicates that 82% of the variation in the dependent variable (mpg) is explained by the independent variables (weight and horsepower). This is slightly lower than the coefficient of determination in your model, which is 0.85. However, both models have a high R-squared value, which means that the independent variables are good predictors of the dependent variable.
2. The results of your t-tests are consistent with mine in terms of the significance of the coefficients. Both weight and horsepower have a statistically significant effect on mpg, as indicated by the low p-values and high t-values. The t-value for weight in your model is slightly higher (-5.95 vs. -5.94), while the t-value for horsepower is marginally lower (-3.69 vs. -3.68).
3. Yes, I would recommend this regression model to the car rental company. The model has a high coefficient of determination, indicating that the independent variables are good predictors of the dependent variable. Furthermore, the t-tests for both weight and horsepower show that they have a statistically significant effect on mpg, which means that the car rental company can use these variables to make predictions about fuel efficiency. Additionally, the F-test shows that the overall model is statistically significant, which means that the model as a whole is a good fit for the data.
4. Rewrite of 2:   
   The coefficient of determination (R-squared) for your regression model is 0.82, indicating that 82% of the variation in the dependent variable (mpg) is explained by the independent variables (weight and horsepower). While slightly lower than the coefficient of determination in my model (0.85), both models have high R-squared values, which suggest that the independent variables are reliable predictors of the dependent variable.
5. The results of your t-tests are consistent with my terms of the significance of the coefficients. Both weight and horsepower have a statistically significant impact on mpg, as shown by the low p-values and high t-values. Although the t-values for weight and horsepower in your model are slightly different than mine, they are both still significant and support the conclusion that these variables have a meaningful effect on fuel efficiency.
6. Based on the high R-squared value and the significant t-tests for weight and horsepower, it would be recommended to use this regression model for the car rental company. These results demonstrate that the independent variables are effective predictors of the dependent variable, and the F-test indicates that the overall model is statistically significant, which confirms that the model is a good fit for the data. Therefore, the car rental company can utilize this model to make predictions and informed decisions about fuel efficiency.