Take Test: Module 03 Week 6 P&P Assignment

* Test Information Description This is the paper and pencil assignment for Module 03, Week 6. In this assignment you will continue to explore ordinary least squares regression, particularly multiple variable or multivariable regression. I am uploading a complete Word doc for this P&P assignment below. As was the case last week, this document contains everything you need to complete this assignment as well as a discussion about some of the concepts covered and references to your textbook and additional material. The intention is to help you develop an intuitive understanding for what is going on with this type of regression. As always, if you have question please ask!
mphModule 3 Week 2, PP6 ANA 500.docx
Instructions
The online portion of this paper and pencil assignment has a variety of types of questions; multiple choice, fill in the blank, true/false, etc. Please select the choice that best answers the question or enter a value rounded to two decimal places unless otherwise instructed. If you have any questions just ask!
If you didn't already download it, here is a copy of the Word document associated with this week's assignment.
mphModule 3 Week 2 PP6 ANA 500.docx
Multiple Attempts
This test allows 2 attempts. This is attempt number 1.
Force Completion This test can be saved and resumed later.
Your answers are saved automatically.
,
* Question Completion Status:
QUESTION T
Generating an OLS solution using the variables RM, AGE, TAX, PTRATIO with the dependent variable CMEDV, the intercept value, -41.56, represents where the regression line would intercept the y-axis at x=0. The question is, "What is that home value in whole USD dollars (no cents)?" If you need to be sure to include the appropriate sign for this value. (Hint: think about the axes of the 2-D regression line and what they each represent.)
-46.56
5 points 🗸 Saved

QUESTION 2

Is the home value in Question 1 a realistic home value?

○ Yes		
No		
	10 points	✓ Saved
QUESTION 3		
Still using the independent viroom? Enter whole USD doll	variables RM, AGE, TAX and PTRATIO, how much do home values increase for an increase of an additional llars (no cents)?	al (one)
10		
	5 points	✓ Saved
QUESTION 4		
Still using the same independent thint: this question is different	ndent variables; RM, AGE, TAX, and PTRATIO, how much do home values increase for each year beyond nt because it explicitly states a year before which and after which home values will change. That is, applying ould expect home values to increase.	
Still using the same independent thint: this question is different	nt because it explicitly states a year before which and after which home values will change. That is, applying	
Still using the same independent thint: this question is different constraint before 1940 we wo	nt because it explicitly states a year before which and after which home values will change. That is, applying	ing this
Still using the same independent thint: this question is different constraint before 1940 we wo	nt because it explicitly states a year before which and after which home values will change. That is, applyi rould expect home values to decrease and after which we would expect home values to increase.	ing this
Still using the same independent thint: this question is different constraint before 1940 we wo	nt because it explicitly states a year before which and after which home values will change. That is, applyi rould expect home values to decrease and after which we would expect home values to increase.	ing this
Still using the same independent this question is different constraint before 1940 we work -0.03 QUESTION 5	nt because it explicitly states a year before which and after which home values will change. That is, applyi rould expect home values to decrease and after which we would expect home values to increase.	✓ Saved
Still using the same independent this question is different constraint before 1940 we would be same to the same independent to	nt because it explicitly states a year before which and after which home values will change. That is, applying rould expect home values to decrease and after which we would expect home values to increase. 10 points	✓ Saved
Still using the same independent: this question is different constraint before 1940 we were c	nt because it explicitly states a year before which and after which home values will change. That is, applying rould expect home values to decrease and after which we would expect home values to increase. 10 points	✓ Saved
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Still using the same independent: this question is different constraint before 1940 we were c	nt because it explicitly states a year before which and after which home values will change. That is, applying the proof of the proof o	✓ Saved

and/or the property-tax rate increases.

○ False
5 points V Saved
QUESTION 7
Hama values when K 12 Buril teacher ratios increase. Enter sither increase or decrease
Home values when K-12 Pupil-teacher ratios increase. Enter either increase or decrease.
increase
5 points 🗸 Saved
5 points Save
QUESTION 8
Analogous to simple linear regression, if the data contain substantially more data points than the number of parameters (independent variables) the R-squared value for a multivariable linear regression model indicates how well the model fits the data.
Yes
○ No
5 points V Saved
QUESTION 9
Enter the number of observations (in this last model with limited number of independent variables RM, AGE, TAX and PTRATIO).
374
5 points
OUESTION 10
QUESTION 10
QUESTION 10 Enter the number of independent variables.

	5 points
QUESTION 11	
The estimated Decreased are	
	alue is (Hint: Be careful here because it seems pretty simple. I calculated it incorrectly the first time and it against the gretl output!)
0.799524	
	5 points V Save
QUESTION 12	
(
	y the overall utility of our multivariable linear regression model for home values. Based on the gretl output our P- dibly small, very near zero. Therefore we cannot reject the null hypothesis. This test has proven that the model does
ot have overall utility. (Hin	nt: if this is confusing read through your second textbook Section 4.6 including Example 4.3.)
○ True	
False	
	10 points V Save
QUESTION 13	
	est verifying a multivariable linear regression model's overall utility we can also conclude that the model is the best int: this is covered in the second textbook same reference pages as for question 12.)
○ True	
False	
● False	
● False	10 points V Save

QUESTION 14

Predict the home-value in whole USD (no cents) for a home built in 1950 with (average) 6 rooms, an "assessed" home value of 100,000 USD, and a pupil-teacher ratio of 20:1.

JESTION 15 the result you computed for question 15 more than the mean of the dependent variable in our current multivariable linear result look through your gretl output!) Yes	5 points Saved segression model?
he result you computed for question 15 more than the mean of the dependent variable in our current multivariable linear re int: look through your gretl output!)	egression model?
No	
	5 points Saved
Save and Submit to save and submit. Click Save All Answers to save all answers. Save All Answers	Save and Submit