Test Information 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 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 this type of regression. As always, if you have question please ask!	. for this P&P assignment below. As was the case intuitive understanding for what is going on with
mehModule 3 Week 2, PP6 ANA 500 docx 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 placet questions just ask! If you didn't already download it, here is a copy of the Word document associated with this week's assignment.	s unless otherwise instructed. If you have any
mphModule 3 Week 2, PP6 ANA 500 docx	
ultiple This test allows 2 attempts. This is attempt number 1. tempts rce This test can be saved and resumed later.	
mpletion Your answers are saved automatically.	
uestion Completion Status: עטבאווטאיז	5 points Save Answer
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.)	
QUESTION 2	10 points Save Answer
Is the home value in Question 1 a realistic home value? Yes No	
QUESTION 3	5 points Save Answer
Still using the independent variables RM, AGE, TAX and PTRATIO, how much do home values increase for an increase of an additional (one) room? Enter whole USD dollars (no cents)?	
QUESTION 4	10 points Save Answer
Still using the same independent variables; RM, AGE, TAX, and PTRATIO, how much do home values increase for each year beyond 1940? Hint: this question is different because it explicitly states a year before which and after which home values will change. That is, applying this constraint before 1940 we would expect home values to decrease and after which we would expect home values to increase.	
QUESTION 5	10 points Save Answer
Continuing to use the independent variables; RM, AGE, TAX and PTRATIO, how much do home values increase for each 10,000 USD increase in the tax rate?	
QUESTION 6 It makes sense that, in questions 4 and 5, home values actually decrease or have a negative slope coefficient as the age of the home increases and/or the property-tax rate increases.	5 points Save Answer
○ True ○ False	
QUESTION 7	5 points Save Answer
Home valueswhen K-12 Pupil-teacher ratios increase. Enter either increase or decrease.	
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	5 points Save Answer
Also Agus to Single minor regression, in the data contain substantially more data points than the number of parameters (independent variables) the residuate of a multivariable mean regression model instruction in model first the data. Yes No	
QUESTION 9	5 points Save Answer
Enter the number of observations (in this last model with limited number of independent variables RM, AGE, TAX and PTRATIO).	
QUESTION 10	5 points Save Answer
Enter the number of independent variables.	
QUESTION 11 The adjusted R-squared value is (Hint: Be careful here because it seems pretty simple. I calculated it incorrectly the first time and caught that when I checked it against the gretl output!)	5 points Save Answer
, (time an execution need account proof) annique. I canoniciou in moviment pare inside and caught und when I directed the green output)	
QUESTION 12	10 points Save Answer

○ True		
) False		
QUESTION 13	10 points Save	e Answer
iven the results of an F-test verifying a multivariable linear regression model's overall utility we can also conclude that the model is the best n sfor question 12.)	odel that can be built. (Hint: this is covered in the second textbook same reference pages	
○ True		
○ False		
QUESTION 14	5 points Save	e Answer
redict 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,	a pupil-leacher ratio of 20:1.	
QUESTION 15	5 points Save	e Answer
the result you computed for question 15 more than the mean of the dependent variable in our current multivariable linear regression model?	(Hint: look through your greti output!)	
○ Yes		
○ No		
Save and Submit to save and submit. Click Save All Answers to save all answers.	Save All Answers Save and	id Submi