Quiz 2

Instructions

Before attempting the quiz, please make sure you are familiar with the material covered last week in class. For questions 8, 9, 10, you will Trade and Growth dataset from last week's quiz and stargazer command to create a table of regression results. See the **stargazer help** or **lecture 2 slides** (slide 49) for an example. Before you start coding, add the following code lines to the setup section of your RMarkdown:

```
cse=function(reg) {
    rob=sqrt(diag(vcovHC(reg, type="HC1")))
    return(rob)
}
```

	Question 1	1 / 1 pts
Correct!	1. Both X and Y have mean 0. What can you say about the intercept when regressing Y on X?	
	It must be exactly 1.	
	It must be 0.	
	Nothing can be said from information given.	
	○ It is undefined as you have to divide by 0.	

Question 2	1 / 1 pts
If R-squared is 0.6 when we regress Y on X, then	
Variance(Y)/Variance(X)=0.6	
The slope is greater than the variance of X	
○ The slope is greater than 0	

Correct				

SSR/TSS=0.4

	Question 3	1 / 1 pts
	If X in linear regression is in centimeters and I convert to meters, what happens to the slope?	
	It would get multiplied by 10	
Correct!	It would get multiplied by 100	
	It would get divided by 100.	
	It would get divided by 10.	

Question 4	1 / 1 pts
Other things equal, the OLS estimate of the slope will be greater if	
The variance of X is greater	
The covariance between X and Y is smaller	

	The intercept is positive.	
Correct!	The covariance between X and Y is greater	
	Question 5	1 / 1 pts
	The slope estimator has a smaller standard error, other things equal, if	
	There is a large variance of the error term, u	
	The sample size is smaller	
Correct!	There is more variation in the explanatory variable, X	
	The intercept is small.	
	Question 6	1 / 1 pts
	$E(u_i X_i) = 0$ says that	

Correct!

The conditional distribution of the error given the explanatory variable has a zero mean.

The sample mean of the Xs is much larger than the sample mean of the errors
The sample regression function residuals are unrelated to the explanatory variable
O Dividing the error by the explanatory variable results in a zero (on average)

Question 7	1 / 1 pts
The reason why estimators have a sampling distribution is that:	
Individuals respond different to incentives	
The values of the explanatory variable and the error term differ across samples.	
In real life you typically get to sample many times	
Economics is not a precise science	
	The reason why estimators have a sampling distribution is that: Individuals respond different to incentives The values of the explanatory variable and the error term differ across samples. In real life you typically get to sample many times

Question 8 1 / 1 pts

If you run a simple regression of growth on trade share, the R-squared suggests that:

	 Trade share explains 1.79% of the variation in growth across countries. 	
	None of the above.	
	Trade share explains 88% of the variation in growth across countries.	
	Trade share explains 12% of the variation in growth across countries.	
	Question 9	1 / 1 pt
	Remove Malta from the dataset, and run again a simple regression of growth on trade the sample. You learn that an increase in trade share by 1% will:	share without Malta i
	increase growth rate by 0.168%.	
	increase growth rate by 0.023%.	

Correct!

on increase growth rate by 0.0168%.

Question 10 1 / 1 pts

	Remove Malta from the dataset, and run again a simple regression of growth on trade share without Malta in the sample . The standard error of the slope estimate is:
	O 0.99
	O 0.54
Correct!	0.87
	O 1.79

Quiz Score: 10 out of 10