Assignment 1	Group Number:									
Select three contracts this contract will offer	to use in the hedge. Analysis Tathe best hedge.	ı sk 1 : Fo	or each o	contract,	state w	hy you t	hink			
The justification should think that reason is.	d be based on logic. There is a re	eason fo	r the hi	gh correl	ation. S	tate wha	at you			
		6	5	4	3	1	0			
Data Task 1 : Plot the prices for the spot asset and futures contracts. Should be three graphs in total (one for each futures contract).										
		6	5	4	3	1	0			
Data Task 2 : Plot the to	crading volume for the futures coact).	ontracts.	Should	d be thre	e graphs	s in total	(one			
		6	5	4	3	1	0			
Data Task 3 : Is there missing data? If so, you will have to adjust the data to "fill in" the missing observations. Propose one method of doing so. State what assumptions must hold in order for your method to be valid.										
		6	5	4	3	1	0			
Data Task 4 : Identify the information you will use to construct the hedge. Create a table which displays this information. There should be one table with information about the three contracts.										
		6	5	4	3	1	0			
"Naïve" hedging. Find portfolio on a given da	d the number of contracts that n y.	nost clos	sely mat	ches the	dollar v	alue of t	:he			
Data Task 5 : Plot the contract.	value of the hedged portfolio, w	hich incl	udes the	e MSCI ir	ndex and	I the fut	ures			
		6	5	4	3	1	0			
Data Task 6 : Create a table that shows the arithmetic average and standard deviation for each proposed hedged portfolio returns. Identify the best and worst contract for hedging MSCI risk.										
	folio returns. Identify the best a	_								
	folio returns. Identify the best a	_								
Analysis Task 2: What best and worst hedging	do you think explains the differ	nd wors	t contra	ct for he	edging IV	ISCI risk. 1	0			
	do you think explains the differ	nd wors	t contra	ct for he	edging IV	ISCI risk. 1	0			
best and worst hedgin	do you think explains the differ g instruments. distribution of the best hedged p	6 ence in t	t contra 5 the hedg	4 ged port	3 folio retu 3	ISCI risk. 1 urns of t 1	0 he 0			
best and worst hedging Data Task 7: Plot the	do you think explains the differ g instruments. distribution of the best hedged p	6 ence in t	t contra 5 the hedg	4 ged port	3 folio retu 3	ISCI risk. 1 urns of t 1	0 he 0			
Data Task 7: Plot the chedge performed poor	do you think explains the differ g instruments. distribution of the best hedged p	6 ence in t 6 oortfolio	t contra 5 the hedg 5 . Identif	4 ged port 4 fy three	edging M 3 folio retu 3 days in v	ISCI risk. 1 urns of t 1 vhich the	0 he 0			

Describe how you estimated the hedge ratio. Create statistical significance of the parameters and estimate			-		results,					
Please note that your grade will NOT depend on the depends on the clarity and thoughtfulness of your and		it of you	ur hedge	. Instea	d, your g	grade				
	6	5	4	3	1	0				
Data Task 9 : Create a table that shows the arithmetic average and standard deviation for each proposed hedged portfolio returns. Identify the best and worst contract for hedging MSCI risk.										
	6	5	4	3	1	0				
Analysis Task 4 : What do you think explains the difference in the hedged portfolio returns of the best and worst hedging instruments.										
	6	5	4	3	1	0				
Data Task 10 : Plot the distribution of the hedged por performed poorly.	tfolio. I	dentify	three da	ys in wh	ich the h	edge				
	6	5	4	3	1	0				
Analysis Task 5: What explains the poor returns iden	tified in	Data Ta	sk 10?							
	6	5	4	3	1	0				
Analysis Task 6 : How does the hedge using the hedge dollar matching strategy?	e ratio c	ompare	to the h	iedge us	ing a nai	ve				
	6	5	4	3	1	0				

2. Optimal Hedging Data Task 8: Now create an optimal hedge using a regression. You can use

Total Marks = 15%*(sum(marks for each component)/96)

simple linear regression.