PANAL REGRESSION ANALYSIS

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****************** Use Data Set Stata File **************************

use "D:\Year-2023\Bisma\STATA.dta"

****************** Or select file Location *********************

import excel "D:\Year-2023\Ayzaz\data - Copy.xlsx", sheet("Sheet1") firstrow

****************** Change Working Directory *********************

cd "D:\Year-2023\Ayzaz"

*********** Set data as panel *************

xtset panel years

*********************************** Hypothesis 1 *********************************

***** Create Interaction Term ******

gen moderator = shariah_compliance*csr_index

**************  Descriptive Statistics *****************

asdoc sum csr_index environmental_csr community_csr customer_csr employees_csr
shariah_compliance dividend_payout_1  leverage profitability size debt_ratio roe ocf
risk cash_holding life_cycle_proxy tangibility log_csr_performance

**********  Correlation Test ************

asdoc pwcorr csr_index shariah_compliance dividend_payout_1 leverage profitability
size debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility
log_csr_performance, star (0.05)

********** Unit Root Test *************

asdoc xtunitroot llc csr_index, lags(0) trend

asdoc xtunitroot llc dividend_payout_1, lags(0) trend

asdoc xtunitroot llc leverage, lags(0) trend

asdoc xtunitroot llc profitability, lags(0) trend

asdoc xtunitroot llc size, lags(0) trend

asdoc xtunitroot llc debt_ratio, lags(0) trend

asdoc xtunitroot llc roe, lags(0) trend

asdoc xtunitroot llc ocf, lags(0) trend

asdoc xtunitroot llc risk, lags(0) trend

asdoc xtunitroot llc cash_holding, lags(0) trend

asdoc xtunitroot llc life_cycle_proxy, lags(0) trend

asdoc xtunitroot llc tangibility, lags(0) trend

asdoc xtunitroot llc log_csr_performance, lags(0) trend

*********  Testing for heteroskedasticity  *********

ssc install xttest3
```

```
asdoc xtreg dividend_payout_1 csr_index leverage profitability size debt_ratio roe ocf
risk cash_holding life_cycle_proxy tangibility, fe robust

xttest3

********** Regression Analysis Fixed and Random Effect *************

xtreg dividend_payout_1 csr_index leverage profitability size debt_ratio roe ocf risk
cash_holding life_cycle_proxy tangibility, fe

estimates store fixed

xtreg dividend_payout_1 csr_index leverage profitability size debt_ratio roe ocf risk
cash_holding life_cycle_proxy tangibility, re

estimates store random

*************   Post-Estimation to see whether fixed or random effect is appropriate
****************

asdoc hausman fixed random, sigmamore

**********  Post-Estimation **********

asdoc xtreg dividend_payout_1 csr_index leverage profitability size debt_ratio roe ocf
risk cash_holding life_cycle_proxy tangibility, re robust nest

xttest0

asdoc reg dividend_payout_1 csr_index leverage profitability size debt_ratio roe ocf
risk cash_holding life_cycle_proxy tangibility,  robust nest

********** VIF Test **************

vif

******************************** Hypothesis 2 **********************************

asdoc reg dividend_payout_1 environmental_csr shariah_compliance leverage
profitability size debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility,
robust nest

asdoc reg dividend_payout_1 community_csr shariah_compliance leverage profitability
size debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility, robust nest

asdoc reg dividend_payout_1 customer_csr shariah_compliance leverage profitability
size debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility, robust nest

asdoc reg dividend_payout_1 employees_csr shariah_compliance leverage profitability
size debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility, robust nest

******************************* Hypothesis 3 *********************************

asdoc reg dividend_payout_1 shariah_compliance

asdoc reg dividend_payout_1 csr_index shariah_compliance

asdoc reg dividend_payout_1 csr_index shariah_compliance leverage profitability size
debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility
```

********************************* Hypothesis 4 *********************************

```
asdoc xtreg dividend_payout_1 csr_index moderator leverage profitability size
debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility, fe robust replace
nest

xttest3

********** Regression Analysis Fixed and Random Effect *************

xtreg dividend_payout_1 csr_index moderator leverage profitability size debt_ratio roe
ocf risk cash_holding life_cycle_proxy tangibility, fe

estimates store fixed

xtreg dividend_payout_1 csr_index moderator leverage profitability size debt_ratio roe
ocf risk cash_holding life_cycle_proxy tangibility, re

estimates store random

******    Post-Estimation to see whether fixed or random effect is appropriate ********

asdoc hausman fixed random, sigmamore

***********  Post-Estimation *************

asdoc xtreg dividend_payout_1 csr_index moderator leverage profitability size
debt_ratio roe ocf risk cash_holding life_cycle_proxy tangibility, re robust nest

xttest0

asdoc reg dividend_payout_1 csr_index moderator leverage profitability size debt_ratio
roe ocf risk cash_holding life_cycle_proxy tangibility, robust nest
```