

Lampiran 1. Data Variabel X₁, X₂, X₃, X₄, X₅ dan Y
Perusahaan Otomotif dan Komponen Di BEI Periode 2015-2018

Kode	Nama Perusahaan		ROE	Current Ratio
ASII	Astra International Tbk	2015	12,34	137,93
		2016	13,08	123,94
		2017	14,82	122,86
		2018	15,70	114,72
AUTO	Astra Auto Part Tbk	2015	3,18	132,29
		2016	4,59	150,51
		2017	5,09	155,87
		2018	6,00	150,00
BRAM	Indo Kordsa Tbk	2015	6,87	180,65
		2016	11,28	189,08
		2017	11,32	238,89
		2018	8,32	214,88
GDYR	Goodyear Indonesia Tbk	2015	-0,20	93,66
		2016	2,94	86,00
		2017	-1,67	80,07
		2018	0,93	68,89
GJTL	Gajah Tunggal Tbk	2015	-5,81	177,81
		2016	10,71	173,05
		2017	0,79	162,99
		2018	-1,30	150,00
IMAS	Indomobil Sukses International Tbk	2015	-0,34	93,53
		2016	-4,66	92,42
		2017	-0,69	83,77
		2018	0,96	77,00
INDS	Indospring Tbk	2015	0,10	223,13
		2016	2,40	303,27
		2017	5,30	512,54
		2018	5,00	521,10
LPIN	Multi Prima Sejahtera Tbk	2015	-15,60	78,97
		2016	-124,12	71,35
		2017	82,94	520,65
		2018	12,00	790,00
MASA	Multistrada Arah Sarana Tbk	2015	-7,78	128,52
		2016	-1,98	105,36
		2017	-2,40	94,98
		2018	-6,00	106,00
PRAS	Prima Alloy Steel Universal Tbk	2015	0,89	100,50
		2016	-0,39	100,71
		2017	-0,48	95,71
		2018	1,20	100,00
SMSM	Selamat Sempurna Tbk	2015	32,03	239,38
		2016	31,78	286,03
		2017	30,38	373,91
		2018	29,00	394,00

Kode	Nama Perusahaan		Fixed Assets	Total Assets	FAR
ASII	Astra International Tbk	2015	41.702.000	245.435.000	0,170
		2016	43.237.000	261.855.000	0,165
		2017	48.402.000	295.646.000	0,164
		2018	57.733.000	344.711.000	0,167
AUTO	Astra Auto Part Tbk	2015	3.507.217	14.339.110	0,245
		2016	3.599.815	14.612.274	0,246
		2017	3.526.867	14.762.309	0,239
		2018	3.498.912	15.889.648	0,220
BRAM	Indo Kordsa Tbk	2015	2.565.895	4.277.420	0,600
		2016	2.239.563	3.977.869	0,563
		2017	2.304.444	4.125.144	0,559
		2018	2.421.521	4.446.000	0,545
GDYR	Goodyear Indonesia Tbk	2015	814.474	1.748.813	0,466
		2016	801.930	1.516.130	0,529
		2017	799.617	1.676.776	0,477
		2018	952.098	1.890.245	0,504
GJTL	Gajah Tunggal Tbk	2015	8.733.925	17.509.505	0,499
		2016	9.130.997	18.697.779	0,488
		2017	8.900.168	18.191.176	0,489
		2018	9.341.227	19.711.478	0,474
IMAS	Indomobil Sukses International Tbk	2015	4.593.404	24.860.958	0,185
		2016	3.864.990	25.633.342	0,151
		2017	4.638.599	31.375.311	0,148
		2018	7.081.169	40.955.996	0,173
INDS	Indospring Tbk	2015	1.447.375	2.533.928	0,571
		2016	1.361.197	2.477.273	0,549
		2017			0,509

		7	1.238.823	2.434.617	
		201 8	1.220.185	2.482.338	0,492
LPIN	Multi Prima Sejahtera Tbk	201 5	69.344	324.055	0,214
		201 6	136.749	477.838	0,286
		201 7	5.604	268.116	0,021
		201 8	5.011	301.596	0,017
MASA	Multistrada Arah Sarana Tbk	201 5	5.839.298	8.771.177	0,666
		201 6	5.478.038	8.192.537	0,669
		201 7	5.958.284	8.909.285	0,669
		201 8	5.781.023	9.650.423	0,599
PRAS	Prima Alloy Steel Universal Tbk	201 5	859.544	1.531.742	0,561
		201 6	897.064	1.596.467	0,562
		201 7	863.440	1.542.244	0,560
		201 8	965.432	1.635.543	0,590
SMSM	Selamat Sempurna Tbk	201 5	714.935	2.220.108	0,322
		201 6	658.258	2.254.740	0,292
		201 7	683.803	2.443.341	0,280
		201 8	749.122	2.801.000	0,267

Kode	Nama Perusahaan		Revenue	Growth
ASII	Astra International Tbk	2014	201.701.000	
		2015	184.196.000	-8,68
		2016	181.084.000	-1,69
		2017	206.057.000	13,79
		2018	239.205.000	16,09
AUTO	Astra Auto Part Tbk	2014	12.255.427	
		2015	11.723.787	-4,34
		2016	12.806.867	9,24
		2017	13.549.857	5,80
		2018	15.356.381	13,33
BRAM	Indo Kordsa Tbk	2014	2.583.169	
		2015	3.046.700	17,94
		2016	2.959.937	-2,85
		2017	3.275.673	10,67
		2018	3.966.600	21,09
GDYR	Goodyear Indonesia Tbk	2014	1.999.274	
		2015	2.263.032	13,19
		2016	2.075.931	-8,27
		2017	2.184.771	5,24
		2018	2.398.923	9,80
GJTL	Gajah Tunggal Tbk	2014	13.070.734	
		2015	12.970.237	-0,77
		2016	13.633.556	5,11
		2017	14.146.918	3,77
		2018	15.349.939	8,50
IMAS	Indomobil Sukses International Tbk	2014	19.458.165	
		2015	18.099.980	-6,98
		2016	15.049.532	-16,85
		2017	19.359.437	28,64
		2018	17.545.000	-9,37
INDS	Indospring Tbk	2014	1.866.977	
		2015	1.659.506	-11,11
		2016	1.637.037	-1,35
		2017	1.967.983	20,22
		2018	2.400.062	21,96
LPIN	Multi Prima Sejahtera Tbk	2014	70.155	
		2015	77.790	10,88
		2016	141.747	82,22
		2017	102.949	-27,37
		2018	95.213	-7,51
MASA	Multistrada Arah Sarana Tbk	2014	3.535.615	
		2015	3.474.035	-1,74
		2016	3.087.600	-11,12
		2017	3.806.647	23,29
		2018	4.752.930	24,86
PRAS	Prima Alloy Steel Universal Tbk	2014	445.665	

Kode	Nama Perusahaan		Revenue	Growth
		2015	469.645	5,38
		2016	366.710	-21,92
		2017	348.471	-4,97
		2018	574.870	64,97
SMSM	Selamat Sempurna Tbk	2014	2.632.860	
		2015	2.802.924	6,46
		2016	2.879.876	2,75
		2017	3.339.964	15,98
		2018	3.933.000	17,76

Kode	Nama Perusahaan		Jumlah saham institusional	Jumlah Saham Beredar	Kepemilikan Institusional	DER
ASII	Astra International Tbk	2015	20.288.255.040	40.483.553.140	50,11	0,94
		2016	20.288.255.040	40.483.553.140	50,11	0,87
		2017	20.288.255.040	40.483.553.140	50,11	0,89
		2018	20.288.255.040	40.483.553.140	50,11	0,98
AUTO	Astra Auto Part Tbk	2015	3.855.786.337	4.819.733.000	80,00	0,41
		2016	3.855.786.337	4.819.733.000	80,00	0,39
		2017	3.855.786.337	4.819.733.000	80,00	0,40
		2018	3.855.786.337	4.819.733.000	80,00	0,40
BRAM	Indo Kordsa Tbk	2015	410.024.410	450.000.000	91,12	0,60
		2016	410.024.410	450.000.000	91,12	0,50
		2017	410.024.410	450.000.000	91,12	0,40
		2018	410.024.410	450.000.000	91,12	0,34
GDYR	Goodyear Indonesia Tbk	2015	377.547.400	410.000.000	92,08	1,15
		2016	377.547.400	410.000.000	92,08	1,01
		2017	377.547.400	410.000.000	92,08	1,31
		2018	377.547.400	410.000.000	92,08	1,32
GJTL	Gajah Tunggul Tbk	2015	2.073.452.443	3.484.800.000	59,50	2,25
		2016	2.073.452.443	3.484.800.000	59,50	2,20
		2017	2.073.452.443	3.484.800.000	59,50	2,20
		2018	2.073.452.443	3.484.800.000	59,50	2,40
IMAS	Indomobil Sukses International Tbk	2015	2.479.277.424	2.765.278.412	89,66	2,71
		2016	2.479.277.424	2.765.278.412	89,66	2,82
		2017	2.479.277.424	2.765.278.412	89,66	2,38
		2018	2.479.277.424	2.765.278.412	89,66	2,97
INDS	Indospring Tbk	2015	578.210.207	656.249.710	88,11	0,33
		2016	578.210.207	656.249.710	88,11	0,20
		2017	578.210.207	656.249.710	88,11	0,14
		2018	578.210.207	656.249.710	88,11	0,13
LPIN	Multi Prima Sejahtera Tbk	2015	86.811.600	106.250.000	81,71	1,78
		2016	86.811.600	106.250.000	81,71	8,26
		2017	86.811.600	106.250.000	81,71	0,16
		2018	86.811.600	106.250.000	81,71	0,10
MASA	Multistrada Arah Sarana Tbk	2015	4.790.927.999	9.182.946.945	52,17	0,73
		2016	4.790.927.999	9.182.946.945	52,17	0,80
		2017	4.790.927.999	9.182.946.945	52,17	0,95

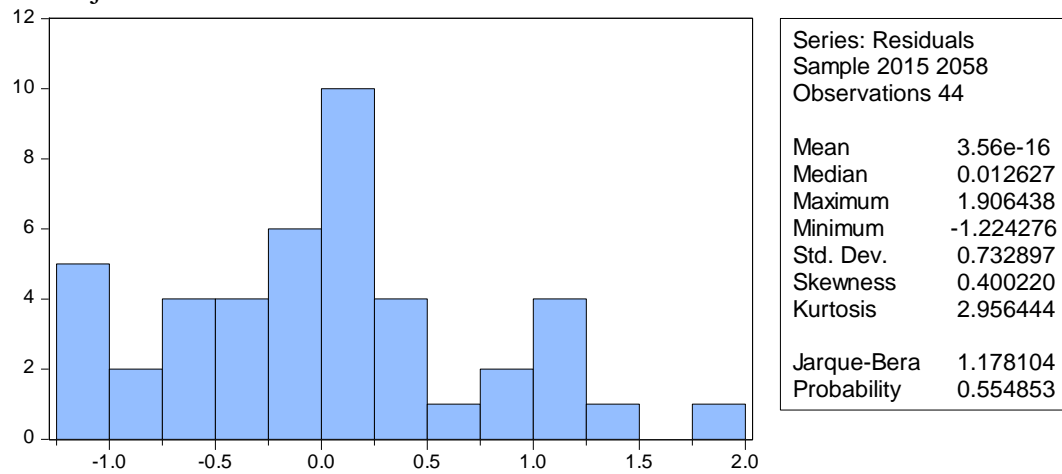
Kode	Nama Perusahaan		Jumlah saham institusional	Jumlah Saham Beredar	Kepemilikan Institusional	DER
		2018	4.790.927.999	9.182.946.945	52,17	0,10
PRAS	Prima Alloy Steel Universal Tbk	2015	379.043.478	701.043.478	54,07	1,13
		2016	379.043.478	701.043.478	54,07	1,30
		2017	379.043.478	701.043.478	54,07	1,28
		2018	379.043.478	701.043.478	54,07	1,37
SMSM	Selamat Sempurna Tbk	2015	3.347.263.708	5.758.675.440	58,13	0,54
		2016	3.347.263.708	5.758.675.440	58,13	0,43
		2017	3.347.263.708	5.758.675.440	58,13	0,34
		2018	3.347.263.708	5.758.675.440	58,13	0,30

Lampiran 2. Hasil Olahan Data Eviews 10.
Deskripsi Data

	Y	X1	X2	X3	X4	X5
Mean	1.186636	4.284545	190.8391	0.389993	7.545757	72.42298
Median	0.880000	2.670000	135.1100	0.475388	5.591110	80.00000
Maximum	8.260000	82.94000	790.0000	0.668772	82.21751	92.08473
Minimum	0.100000	-124.1200	68.89000	0.016615	-27.37130	50.11481
Std. Dev.	1.363261	25.18429	151.8025	0.190039	19.47445	16.81284
Skewness	3.352565	-2.303817	2.133958	-0.267276	1.633170	-0.125229
Kurtosis	17.54043	18.47941	7.547082	1.708817	7.557834	1.227069
Jarque-Bera	470.0355	478.2111	71.30027	3.580317	57.64518	5.877693
Probability	0.000000	0.000000	0.000000	0.166934	0.000000	0.052927
Sum	52.21200	188.5200	8396.920	17.15971	332.0133	3186.611
Sum Sq. Dev.	79.91465	27272.69	990891.5	1.552932	16307.94	12154.89
Observations	44	44	44	44	44	44

Lampiran 3. Hasil Olahan Data Eviews 10.
Uji Asumsi Klasik

1. = Uji Normalitas =



- - H_0 : error term terdistribusi normal
- - H_1 : error term tidak terdistribusi normal
- - Jika p-value < α , maka H_0 ditolak
- - Karena p value = **0,554853** > 0,05, maka H_0 diterima
- - Kesimpulannya adalah dengan tingkat keyakinan 95%, dapat dikatakan bahwa error term terdistribusi normal.

2. Uji Multikolinearitas

multikolinearitas berarti adanya hubungan linear yang sempurna atau pasti antara beberapa atau semua variabel yang menjelaskan model regresi. jika koefisien koreasi antara masing-masing variabel bebas lebih besar dari 0,8, berarti terjadi multikolinearitas dalam model regresi.

	Y	X1	X2	X3	X4	X5
Y	1	0.77539878120 93934	0.40672884236 42567	0.13398664334 45529	0.41929257487 58324	0.06977440301 617649
X1	0.77539878120 93934	1	0.41579350742 5321	0.20131137435 05587	0.55934808640 74532	0.11689567304 45237
X2	0.40672884236 42567	0.41579350742 5321	1	0.23536963363 3728	0.12147586209 6437	0.14595749717 42668
X3	0.13398664334 45529	0.20131137435 05587	0.23536963363 3728	1	0.13337711304 74091	0.09550980796 731423
X4	0.41929257487 58324	0.55934808640 74532	0.12147586209 6437	0.13337711304 74091	1	0.02825005192 410048
X5	0.06977440301 617649	0.11689567304 45237	0.14595749717 42668	0.09550980796 731423	0.02825005192 410048	1

dari output di atas dapat kita lihat bahwa tidak terdapat variabel yang memiliki nilai lebih dari 0,8, sehingga dapat disimpulkan tidak terjadi multikolinearitas dalam model regresi.

Variance Inflation Factors

Date: 02/22/20 Time: 05:05

Sample: 2015 2058

Included observations: 44

Variable	Coefficient Variance	Uncentered VIF	Centered VIF
X1	4.24E-05	1.956895	1.900605
X2	8.22E-07	3.507815	1.340298
X3	0.424116	5.753211	1.083593
X4	5.68E-05	1.758713	1.524512
X5	5.48E-05	21.89131	1.095282
C	0.405173	29.33068	NA

3. Uji Heteroskedastisitas =

dengan hasil di atas kita menduga tidak terjadi heteroskedastisitas, karena residualnya tidak membentuk pola tertentu, dengan kata lainnya residualnya cenderung konstan.

- untuk membuktikan tidak ada heteroskedastisitas, maka kita akan melakukan uji Glesjer *heteroscedasticity*

Heteroskedasticity Test: Glejser

F-statistic	2.677924	Prob. F(5,38)	0.0361
Obs*R-squared	11.46425	Prob. Chi-Square(5)	0.1429
Scaled explained SS	11.39123	Prob. Chi-Square(5)	0.1442

Test Equation:

Dependent Variable: ARESID

Method: Least Squares

Date: 02/22/20 Time: 05:05

Sample: 2015 2058

Included observations: 44

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.264651	0.353917	3.573293	0.0010
X1	-0.004521	0.003619	-1.249491	0.2191
X2	0.000175	0.000504	0.346572	0.7308
X3	-1.255083	0.362096	-3.466157	0.0013
X4	-0.003021	0.004191	-0.720837	0.4754
X5	-0.002950	0.004115	-0.716950	0.4778

R-squared	0.260551	Mean dependent var	0.552693
Adjusted R-squared	0.163255	S.D. dependent var	0.473882
S.E. of regression	0.433478	Akaike info criterion	1.292173
Sum squared resid	7.140325	Schwarz criterion	1.535472
Log likelihood	-22.42780	Hannan-Quinn criter.	1.382400
F-statistic	2.677924	Durbin-Watson stat	1.318659
Prob(F-statistic)	0.036113		

- Ho : tidak ada heteroskedastisitas
 - H1 : ada heteroskedastisitas
 - Jika p-value obs*-square $< \alpha$, maka Ho ditolak
 - Karena p value obs*-square = 0.1442 $> 0,01$, maka H0 diterima
- Kesimpulannya adalah dengan tingkat keyakinan 95%, dapat dikatakan bahwa tidak terdapat heteroskedastisitas dalam model regresi.

4 .= Uji Autokorelasi =

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	9.700972	Prob. F(2,36)	0.1004
Obs*R-squared	15.40895	Prob. Chi-Square(2)	0.1005

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 02/22/20 Time: 05:06

Sample: 2015 2058

Included observations: 44

Presample missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
X1	-0.000234	0.005536	-0.042191	0.9666
X2	-0.000993	0.000784	-1.265206	0.2139
X3	0.251369	0.542408	0.463431	0.6458
X4	0.006427	0.006427	1.000080	0.3239
X5	6.24E-05	0.006175	0.010106	0.9920
C	0.040446	0.530624	0.076224	0.9397
RESID(-1)	0.709060	0.179065	3.959789	0.0003
RESID(-2)	-0.084876	0.164612	-0.515612	0.6093
R-squared	0.350203	Mean dependent var	3.56E-16	
Adjusted R-squared	0.223854	S.D. dependent var	0.732897	
S.E. of regression	0.645676	Akaike info criterion	2.125928	
Sum squared resid	15.00831	Schwarz criterion	2.450326	
Log likelihood	-38.77041	Hannan-Quinn criter.	2.246230	
F-statistic	2.771706	Durbin-Watson stat	2.218806	
Prob(F-statistic)	0.020634			

- Ho : tidak ada korelasi serial
- H1 : ada korelasi serial
- Jika p-value obs*-square < α , maka Ho ditolak
- Karena p value -obs*-square = 0.1005 > 0,01, maka H0 diterima
- Kesimpulannya adalah dengan tingkat keyakinan 95%, dapat dikatakan bahwa tidak terdapat autokorelasi dalam model regresi.

Lampiran 4. Hasil Olahan Data Eviews 10.
Panel Least Square atau Common Effect

Dependent Variable: Y?
 Method: Pooled Least Squares
 Date: 02/22/20 Time: 04:52
 Sample: 2015 2018
 Included observations: 4
 Cross-sections included: 11
 Total pool (balanced) observations: 44

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.727092	0.636532	4.284299	0.0001
X1?	-0.041910	0.006508	-6.439411	0.0000
X2?	-0.001412	0.000907	-1.557036	0.1278
X3?	-2.374627	0.651242	-3.646306	0.0008
X4?	0.000733	0.007538	0.097196	0.9231
X5?	-0.002360	0.007401	-0.318865	0.7516
R-squared	0.710980	Mean dependent var		1.186636
Adjusted R-squared	0.672951	S.D. dependent var		1.363261
S.E. of regression	0.779624	Akaike info criterion		2.466114
Sum squared resid	23.09693	Schwarz criterion		2.709413
Log likelihood	-48.25452	Hannan-Quinn criter.		2.556341
F-statistic	18.69576	Durbin-Watson stat		0.824357
Prob(F-statistic)	0.000000			

Lampiran 5. Hasil Olahan Data Eviews 10.

Fixed Effect Model

Uji fixed effect model dilakukan untuk melihat model manakah yang lebih tepat, model common atau fixed effect model dengan hipotes sebagai berikut :

H0 : Common Effect Model

H1 : Fixed Effect Model

jika Chi Square > 0,05 ==> Terima H0

Jika Chi Square < 0,05 ==> Tolak H0

Dependent Variable: Y?
Method: Pooled Least Squares
Date: 02/22/20 Time: 04:52
Sample: 2015 2018
Included observations: 4
Cross-sections included: 11
Total pool (balanced) observations: 44

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.062548	0.687986	-0.090915	0.9281
X1?	0.006665	0.014516	0.459154	0.6491
X2?	-2.408270	1.435362	-1.677814	0.1031
X3?	-0.087341	0.049154	-1.776872	0.0851
X4?	0.068390	0.147182	0.464662	0.6452
X5?	0.190085	0.375523	0.506187	0.6161

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.326619	Mean dependent var	0.371854
Adjusted R-squared	0.040942	S.D. dependent var	0.850335
S.E. of regression	0.832746	Akaike info criterion	2.722130
Sum squared resid	22.88437	Schwarz criterion	3.306880
Log likelihood	-50.33112	Hannan-Quinn criter.	2.943108
F-statistic	1.143316	Durbin-Watson stat	1.655915
Prob(F-statistic)	0.360443		

Redundant Fixed Effects Tests
 Pool: POOL01
 Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	1.287250	(11,33)	0.2745
Cross-section Chi-square	17.137593	11	0.1039

Cross-section fixed effects test equation:

Dependent Variable: Y?

Method: Panel Least Squares

Date: 02/22/20 Time: 04:52

Sample: 2015 2018

Included observations: 4

Cross-sections included: 11

Total pool (balanced) observations: 44

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.423317	0.285581	0.447027	0.6570
X1?	-0.036371	0.011318	-0.158478	0.8748
X2?	1.488710	0.872954	1.705369	0.1000
X3?	0.016262	0.021311	0.763078	0.4523
X4?	0.002015	0.111117	0.748363	0.4582
X5?	1.876094	0.134864	0.678878	0.5008

R-squared	0.037682	Mean dependent var	0.371854
Adjusted R-squared	-0.027930	S.D. dependent var	0.850335
S.E. of regression	0.862128	Akaike info criterion	2.620830
Sum squared resid	32.70367	Schwarz criterion	2.776763
Log likelihood	-58.89992	Hannan-Quinn criter.	2.679757
F-statistic	0.574316	Durbin-Watson stat	1.186967
Prob(F-statistic)	0.634927		

- Jika dilihat dari hasil output di atas, dimana nilai chi-square nya 0.1039 lebih besar dari alpha 0,05 maka model yang tepat menggunakan **Common Effect Model**

Lampiran 6. Hasil Olahan Data Eviews 10.

Random Effect Model

Uji random effect dilakukan untuk melihat manakah yang lebih tepat model fixed atau random.

H0 : Random Effect Model

H1 : Fixed Effect Model

Jika Chi Square > 0,05 ==> Terima H0

Jika Chi Square < 0,05 ==> Tolak H0

Dependent Variable: Y?
Method: Pooled EGLS (Cross-section random effects)
Date: 02/22/20 Time: 04:52
Sample: 2015 2018
Included observations: 4
Cross-sections included: 11
Total pool (balanced) observations: 44
Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.423317	1.350236	1.794735	0.0807
X1?	-0.036371	0.004862	-7.480969	0.0000
X2?	-0.002015	0.000885	-2.276819	0.0285
X3?	1.876094	1.369482	1.369930	0.1787
X4?	0.004160	0.004930	2.843839	0.0040
X5?	-5.56E-05	0.015683	-0.003547	0.9972

Weighted Statistics

R-squared	0.830068	Mean dependent var	0.329670
Adjusted R-squared	0.807708	S.D. dependent var	1.060743
S.E. of regression	0.465148	Sum squared resid	8.221769
F-statistic	37.12364	Durbin-Watson stat	2.110221
Prob(F-statistic)	0.000000		

Unweighted Statistics

R-squared	0.699935	Mean dependent var	1.186636
Sum squared resid	23.97956	Durbin-Watson stat	0.723523

Correlated Random Effects - Hausman Test
 Pool: POOL01
 Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	1.849807	4	0.7634

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
X1?	-0.031362	-0.036371	0.000014	0.1767
X2?	-0.000780	-0.002015	0.000001	0.2896
X3?	3.704284	-1.876094	20.405556	0.2167
X4?	0.005010	0.004160	0.000001	0.4716

Cross-section random effects test equation:

Dependent Variable: Y?
 Method: Panel Least Squares
 Date: 02/22/20 Time: 04:54
 Sample: 2015 2018
 Included observations: 4
 Cross-sections included: 11
 Total pool (balanced) observations: 44

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.012543	2.089535	-0.006003	0.9953
X1?	-0.031362	0.006114	-5.129580	0.0000
X2?	-0.000780	0.001464	-0.532879	0.5983
X3?	3.704284	4.720279	0.784760	0.4392
X4?	0.005010	0.005069	0.988297	0.3315
X5?	NA	NA	NA	NA

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.917807	Mean dependent var	1.186636
Adjusted R-squared	0.873776	S.D. dependent var	1.363261
S.E. of regression	0.484340	Akaike info criterion	1.663230
Sum squared resid	6.568400	Schwarz criterion	2.312027
Log likelihood	-20.59107	Hannan-Quinn criter.	1.903835
F-statistic	20.84419	Durbin-Watson stat	2.559428
Prob(F-statistic)	0.000000		

hasil dari uji hausman di atas dapat dilihat memiliki nilai probabilitas lebih besar dari alpha 0,05 (**0,7634 > 0,05**), maka model yang tepat adalah menggunakan **Random Effect Model**

Lampiran 12. Hasil Olahan Data Eviews 10.

Uji Breusch Pagan

Lagrange Multiplier (LM) adalah uji untuk mengetahui apakah model **Random Effect** atau model **Common Effect (OLS)** yang paling tepat digunakan. Uji signifikansi Random Effect ini dikembangkan oleh Breusch Pagan. Metode Breusch Pagan untuk uji signifikansi Random Effect didasarkan pada nilai residual dari metode OLS.

Hipotesis yang digunakan adalah :

H_0 : Common Effect Model

H_1 : Random Effect Model

Lagrange Multiplier Tests for Random Effects

Null hypotheses: No effects

Alternative hypotheses: Two-sided (Breusch-Pagan) and one-sided (all others) alternatives

	Test Hypothesis		
	Cross-section	Time	Both
Breusch-Pagan	1.305088 (0.0033)	0.207199 (0.6490)	1.512286 (0.2188)

Berdasarkan nilai Prob. Breusch-Pagan (BP) sebesar 0,0033, menunjukkan bahwa H_0 ditolak H_1 diterima. Artinya, bahwa **model random effect** dipilih dalam uji *Lagrange Multiplier*. Berdasarkan uji model *Chow-test* menunjukkan bahwa *Common Effect Model* yang dipilih. Di sisi lain, hasil dari uji model *Hausman* menunjukkan bahwa *Random Effect Model* yang dipilih dan hasil dari uji model *Lagrange Multiplier* menunjukkan bahwa **Random Effect** dipilih. Dari hasil tersebut terbukti model panel yang dipilih adalah model **Random Effect Model**.