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LAMPIRAN

Lampiran 1. Data pertumbuhan jumlah daun kentang

Perlakuan	1	2	3	4	5	6	7	8	9
A1B1C1	21	14	11	15	10	7	12	11	6
A1B1C2	10	9	7	7	8	7	4	7	9
A1B2C1	7	7	4	6	8	13	7	9	6
A1B2C2	8	9	7	14	16	13	6	9	8
A2B1C1	9	10	7	18	7	13	20	16	9
A2B1C2	18	13	12	16	16	18	17	19	15
A2B2C1	7	4	6	8	7	9	7	9	10
A2B2C2	8	8	6	9	7	8	4	1	4

Lampiran 2. Data pertumbuhan jumlah daun kentang yang *Outlier*

Perlakuan	1	2	3	4	5	6	7	8	9
A1B1C1	30	14	11	15	10	7	12	11	6
A1B1C2	10	9	7	7	8	7	4	7	9
A1B2C1	7	7	4	6	8	13	7	9	6
A1B2C2	8	9	7	14	16	13	6	9	8
A2B1C1	9	10	7	33	7	13	32	16	9
A2B1C2	18	13	12	16	16	18	17	27	15
A2B2C1	7	4	6	8	7	9	7	9	10
A2B2C2	8	8	6	9	7	8	4	1	4

Lampiran 3. Uji Normalitas

Tabel 1. Uji Normalitas Kolmogorov-Smirnov dan Shapiro-Wilk

Tests of Normality						
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	Df	Sig.
Standardized Residual for Modified	.180	72	.000	.822	72	.000

Lampiran 4. Uji Homoskedastisitas

		Levene Statistic	df1	df2	Sig.
Data Modifikasi	Based on Mean	4.391	7	64	.000
	Based on Median	1.817	7	64	.099
	Based on Median and with adjusted df	1.817	7	20.551	.138
	Based on trimmed mean	3.813	7	64	.002

Lampiran 5. Uji ANAVA

Tabel 3. Uji ANAVA (Analisis Varians)

Tests of Between-Subjects Effects					
Dependent Variable: Jumlah Daun					
Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	1031.431 ^a	7	147.347	5.749	.000
Intercept	7833.347	1	7833.347	305.650	.000
A	66.125	1	66.125	2.580	.113
B	517.347	1	517.347	20.186	.000
C	6.125	1	6.125	.239	.627
A * B	268.347	1	268.347	10.471	.002
A * C	11.681	1	11.681	.456	.502
B * C	25.681	1	25.681	1.002	.321
A * B * C	136.125	1	136.125	5.311	.024
Error	1640.222	64	25.628		
Total	10505.000	72			
Correc Total	2671.653	71			

a. R Squared = .386 (Adjusted R Squared = .319)

Lampiran 6. Nilai residual dan nilai dugaan pengamatan

Y	\hat{Y}	e	Y	\hat{Y}	e
30	11.10188558	18.89811442	9	14.50019961	-5.500199613
14	11.10188558	2.898114424	10	14.50019961	-4.500199613
11	11.10188558	-0.101885576	7	14.50019961	-7.500199613
15	11.10188558	3.898114424	33	14.50019961	18.49980039
10	11.10188558	-1.101885576	7	14.50019961	-7.500199613
7	11.10188558	-4.101885576	13	14.50019961	-1.500199613
12	11.10188558	0.898114424	32	14.50019961	17.49980039
11	11.10188558	-0.101885576	16	14.50019961	1.499800387
6	11.10188558	-5.101885576	9	14.50019961	-5.500199613
10	7.806746336	2.193253664	18	16.68057892	1.319421079
9	7.806746336	1.193253664	13	16.68057892	-3.680578921
7	7.806746336	-0.806746336	12	16.68057892	-4.680578921
7	7.806746336	-0.806746336	16	16.68057892	-0.680578921
8	7.806746336	0.193253664	16	16.68057892	-0.680578921
7	7.806746336	-0.806746336	18	16.68057892	1.319421079
4	7.806746336	-3.806746336	17	16.68057892	0.319421079
7	7.806746336	-0.806746336	27	16.68057892	10.31942108
9	7.806746336	1.193253664	15	16.68057892	-1.680578921
7	6.954877572	0.045122428	7	7.72111637	-0.72111637
7	6.954877572	0.045122428	4	7.72111637	-3.72111637
4	6.954877572	-2.954877572	6	7.72111637	-1.72111637
6	6.954877572	-0.954877572	8	7.72111637	0.27888363
8	6.954877572	1.045122428	7	7.72111637	-0.72111637
13	6.954877572	6.045122428	9	7.72111637	1.27888363
7	6.954877572	0.045122428	7	7.72111637	-0.72111637
9	6.954877572	2.045122428	9	7.72111637	1.27888363
6	6.954877572	-0.954877572	10	7.72111637	2.27888363
8	7.975213918	0.024786082	8	7.754358593	0.245641407
9	7.975213918	1.024786082	8	7.754358593	0.245641407
7	7.975213918	-0.975213918	6	7.754358593	-1.754358593
14	7.975213918	6.024786082	9	7.754358593	1.245641407
16	7.975213918	8.024786082	7	7.754358593	-0.754358593
13	7.975213918	5.024786082	8	7.754358593	0.245641407
6	7.975213918	-1.975213918	4	7.754358593	-3.754358593
9	7.975213918	1.024786082	1	7.754358593	-6.754358593
8	7.975213918	0.024786082	4	7.754358593	-3.754358593

Lampiran 7. Nilai Estimator Skala ($\hat{\sigma}_s$)

Iterasi	$\hat{\sigma}_s$	Iterasi	$\hat{\sigma}_s$
1	2.635697	32	2.288809
2	2.036951	33	2.288837
3	2.091972	34	2.288861
4	2.191184	35	2.288883
5	2.249513	36	2.288901
6	2.273059	37	2.288918
7	2.281429	38	2.288932
8	2.284381	39	2.288945
9	2.285507	40	2.288956
10	2.286028	41	2.288966
11	2.286346	42	2.288974
12	2.286596	43	2.288982
13	2.286819	44	2.288988
14	2.287026	45	2.288994
15	2.287222	46	2.288999
16	2.287405	47	2.289003
17	2.287575	48	2.289007
18	2.287731	49	2.289011
19	2.287874	50	2.289014
20	2.288003	51	2.289016
21	2.288120	52	2.289018
22	2.288225	53	2.289020
23	2.288319	54	2.289022
24	2.288403	55	2.289024
25	2.288478	56	2.289025
26	2.288545	57	2.289026
27	2.288603	58	2.289027
28	2.288656	59	2.289028
29	2.288701	60	2.289029
30	2.288742	61	2.289029
31	2.288778	62	2.289030

Lampiran 8. Nilai Standar Error (u_i)

U1	u2	u3	u4	u5	u6	u7	u8	u9	u10	u11	...	u62
6.4921	8.6301	8.6287	8.4438	8.3352	8.2922	8.2768	8.2711	8.2686	8.2672	8.2662	...	8.2559
0.4216	0.7753	0.9805	1.1418	1.2226	1.2532	1.2636	1.2670	1.2679	1.2681	1.2681	...	1.2661
-0.7167	-0.6975	-0.4536	-0.2273	-0.1110	-0.0666	-0.0513	-0.0463	-0.0447	-0.0442	-0.0441	...	-0.0445
0.8010	1.2662	1.4585	1.5982	1.6671	1.6932	1.7020	1.7047	1.7055	1.7056	1.7055	...	1.7030
-1.0961	-1.1885	-0.9316	-0.6837	-0.5556	-0.5065	-0.4896	-0.4840	-0.4822	-0.4816	-0.4814	...	-0.4814
-2.2343	-2.6612	-2.3657	-2.0528	-1.8892	-1.8263	-1.8046	-1.7973	-1.7948	-1.7939	-1.7936	...	-1.7920
-0.3372	-0.2066	0.0244	0.2291	0.3335	0.3733	0.3870	0.3915	0.3929	0.3933	0.3933	...	0.3924
-0.7167	-0.6975	-0.4536	-0.2273	-0.1110	-0.0666	-0.0513	-0.0463	-0.0447	-0.0442	-0.0441	...	-0.0445
-2.6137	-3.1522	-2.8437	-2.5092	-2.3338	-2.2663	-2.2429	-2.2351	-2.2324	-2.2314	-2.2309	...	-2.2288
0.9274	1.1064	1.0846	1.0329	0.9955	0.9759	0.9668	0.9628	0.9610	0.9602	0.9598	...	0.9582
0.5480	0.6155	0.6066	0.5765	0.5509	0.5359	0.5285	0.5250	0.5235	0.5228	0.5224	...	0.5213
-0.2108	-0.3664	-0.3494	-0.3362	-0.3382	-0.3439	-0.3482	-0.3505	-0.3516	-0.3521	-0.3523	...	-0.3524
-0.2108	-0.3664	-0.3494	-0.3362	-0.3382	-0.3439	-0.3482	-0.3505	-0.3516	-0.3521	-0.3523	...	-0.3524
0.1686	0.1246	0.1286	0.1201	0.1064	0.0960	0.0902	0.0873	0.0859	0.0853	0.0850	...	0.0844
-0.2108	-0.3664	-0.3494	-0.3362	-0.3382	-0.3439	-0.3482	-0.3505	-0.3516	-0.3521	-0.3523	...	-0.3524
-1.3490	-1.8391	-1.7835	-1.7054	-1.6718	-1.6637	-1.6631	-1.6638	-1.6642	-1.6644	-1.6645	...	-1.6630
-0.2108	-0.3664	-0.3494	-0.3362	-0.3382	-0.3439	-0.3482	-0.3505	-0.3516	-0.3521	-0.3523	...	-0.3524
0.5480	0.6155	0.6066	0.5765	0.5509	0.5359	0.5285	0.5250	0.5235	0.5228	0.5224	...	0.5213
-0.1686	-0.0510	-0.0097	0.0050	0.0113	0.0152	0.0174	0.0185	0.0191	0.0194	0.0195	...	0.0197
-0.1686	-0.0510	-0.0097	0.0050	0.0113	0.0152	0.0174	0.0185	0.0191	0.0194	0.0195	...	0.0197
-1.3068	-1.5238	-1.4437	-1.3641	-1.3223	-1.3047	-1.2976	-1.2947	-1.2935	-1.2930	-1.2926	...	-1.2909
-0.5480	-0.5419	-0.4877	-0.4514	-0.4332	-0.4248	-0.4210	-0.4192	-0.4184	-0.4181	-0.4179	...	-0.4172
0.2108	0.4399	0.4684	0.4614	0.4559	0.4551	0.4557	0.4563	0.4566	0.4568	0.4569	...	0.4566
2.1078	2.8946	2.8584	2.7432	2.6786	2.6548	2.6473	2.6451	2.6443	2.6440	2.6438	...	2.6409

-0.1686	-0.0510	-0.0097	0.0050	0.0113	0.0152	0.0174	0.0185	0.0191	0.0194	0.0195	...	0.0197
0.5902	0.9308	0.9464	0.9177	0.9004	0.8950	0.8940	0.8940	0.8942	0.8942	0.8943	...	0.8934
-0.5480	-0.5419	-0.4877	-0.4514	-0.4332	-0.4248	-0.4210	-0.4192	-0.4184	-0.4181	-0.4179	...	-0.4172
-0.7588	-0.3838	-0.1596	-0.0663	-0.0228	-0.0032	0.0051	0.0084	0.0098	0.0103	0.0105	...	0.0108
-0.3794	0.1072	0.3184	0.3901	0.4218	0.4367	0.4434	0.4462	0.4473	0.4477	0.4479	...	0.4477
-1.1382	-0.8747	-0.6377	-0.5227	-0.4673	-0.4431	-0.4333	-0.4293	-0.4278	-0.4272	-0.4269	...	-0.4260
1.5176	2.5618	2.7085	2.6719	2.6445	2.6364	2.6350	2.6350	2.6350	2.6349	2.6348	...	2.6320
2.2764	3.5437	3.6645	3.5847	3.5336	3.5163	3.5116	3.5105	3.5101	3.5098	3.5095	...	3.5058
1.1382	2.0709	2.2305	2.2156	2.1999	2.1965	2.1967	2.1972	2.1975	2.1975	2.1974	...	2.1952
-1.5176	-1.3656	-1.1157	-0.9791	-0.9118	-0.8831	-0.8716	-0.8671	-0.8653	-0.8646	-0.8643	...	-0.8629
-0.3794	0.1072	0.3184	0.3901	0.4218	0.4367	0.4434	0.4462	0.4473	0.4477	0.4479	...	0.4477
-0.7588	-0.3838	-0.1596	-0.0663	-0.0228	-0.0032	0.0051	0.0084	0.0098	0.0103	0.0105	...	0.0108
-2.3186	-2.8897	-2.8446	-2.7346	-2.6580	-2.6123	-2.5819	-2.5586	-2.5392	-2.5226	-2.5080	...	-2.4029
-1.9392	-2.3988	-2.3666	-2.2782	-2.2134	-2.1724	-2.1436	-2.1208	-2.1017	-2.0851	-2.0706	...	-1.9660
-3.0774	-3.8716	-3.8007	-3.6473	-3.5471	-3.4922	-3.4585	-3.4341	-3.4143	-3.3975	-3.3828	...	-3.2766
6.7872	8.8926	8.6278	8.2184	8.0110	7.9461	7.9378	7.9475	7.9617	7.9760	7.9891	...	8.0819
-3.0774	-3.8716	-3.8007	-3.6473	-3.5471	-3.4922	-3.4585	-3.4341	-3.4143	-3.3975	-3.3828	...	-3.2766
-0.8010	-0.9260	-0.9325	-0.9091	-0.8798	-0.8526	-0.8286	-0.8076	-0.7891	-0.7728	-0.7585	...	-0.6554
6.4077	8.4017	8.1498	7.7620	7.5665	7.5062	7.4995	7.5098	7.5242	7.5385	7.5517	...	7.6450
0.3373	0.5468	0.5015	0.4601	0.4538	0.4672	0.4864	0.5057	0.5235	0.5395	0.5536	...	0.6552
-2.3186	-2.8897	-2.8446	-2.7346	-2.6580	-2.6123	-2.5819	-2.5586	-2.5392	-2.5226	-2.5080	...	-2.4029
0.4216	0.6212	0.6166	0.5949	0.5831	0.5789	0.5776	0.5773	0.5772	0.5771	0.5770	...	0.5764
-1.4755	-1.8335	-1.7735	-1.6870	-1.6396	-1.6208	-1.6140	-1.6115	-1.6105	-1.6101	-1.6098	...	-1.6079
-1.8549	-2.3244	-2.2515	-2.1433	-2.0842	-2.0607	-2.0523	-2.0493	-2.0481	-2.0475	-2.0472	...	-2.0448
-0.3373	-0.3607	-0.3395	-0.3178	-0.3060	-0.3010	-0.2990	-0.2982	-0.2979	-0.2978	-0.2977	...	-0.2973
-0.3373	-0.3607	-0.3395	-0.3178	-0.3060	-0.3010	-0.2990	-0.2982	-0.2979	-0.2978	-0.2977	...	-0.2973
0.4216	0.6212	0.6166	0.5949	0.5831	0.5789	0.5776	0.5773	0.5772	0.5771	0.5770	...	0.5764

0.0422	0.1302	0.1386	0.1385	0.1385	0.1390	0.1393	0.1395	0.1396	0.1397	0.1397	...	0.1395
3.8362	5.0395	4.9187	4.7023	4.5839	4.5383	4.5225	4.5171	4.5150	4.5141	4.5135	...	4.5082
-0.7167	-0.8516	-0.8175	-0.7742	-0.7505	-0.7409	-0.7373	-0.7360	-0.7355	-0.7352	-0.7351	...	-0.7342
-0.1686	-0.2974	-0.2935	-0.2878	-0.2930	-0.3009	-0.3069	-0.3106	-0.3127	-0.3138	-0.3144	...	-0.3150
-1.3068	-1.7702	-1.7276	-1.6570	-1.6267	-1.6207	-1.6219	-1.6239	-1.6253	-1.6262	-1.6266	...	-1.6256
-0.5480	-0.7883	-0.7716	-0.7442	-0.7376	-0.7409	-0.7453	-0.7484	-0.7503	-0.7513	-0.7518	...	-0.7519
0.2108	0.1935	0.1845	0.1685	0.1515	0.1390	0.1314	0.1271	0.1248	0.1236	0.1229	...	0.1218
-0.1686	-0.2974	-0.2935	-0.2878	-0.2930	-0.3009	-0.3069	-0.3106	-0.3127	-0.3138	-0.3144	...	-0.3150
0.5902	0.6845	0.6625	0.6249	0.5961	0.5790	0.5697	0.5649	0.5624	0.5610	0.5603	...	0.5587
-0.1686	-0.2974	-0.2935	-0.2878	-0.2930	-0.3009	-0.3069	-0.3106	-0.3127	-0.3138	-0.3144	...	-0.3150
0.5902	0.6845	0.6625	0.6249	0.5961	0.5790	0.5697	0.5649	0.5624	0.5610	0.5603	...	0.5587
0.9696	1.1754	1.1405	1.0813	1.0406	1.0189	1.0080	1.0026	0.9999	0.9985	0.9977	...	0.9956
0.7167	0.6714	0.3781	0.1870	0.1272	0.1117	0.1081	0.1074	0.1073	0.1073	0.1073	...	0.1073
0.7167	0.6714	0.3781	0.1870	0.1272	0.1117	0.1081	0.1074	0.1073	0.1073	0.1073	...	0.1073
-0.0422	-0.3104	-0.5779	-0.7258	-0.7618	-0.7681	-0.7685	-0.7681	-0.7678	-0.7676	-0.7675	...	-0.7664
1.0961	1.1624	0.8562	0.6433	0.5718	0.5517	0.5465	0.5452	0.5448	0.5447	0.5447	...	0.5442
0.3373	0.1805	-0.0999	-0.2694	-0.3173	-0.3282	-0.3302	-0.3303	-0.3302	-0.3301	-0.3301	...	-0.3296
0.7167	0.6714	0.3781	0.1870	0.1272	0.1117	0.1081	0.1074	0.1073	0.1073	0.1073	...	0.1073
-0.8010	-1.2923	-1.5339	-1.6385	-1.6509	-1.6480	-1.6451	-1.6436	-1.6429	-1.6425	-1.6422	...	-1.6402
-1.9392	-2.7651	-2.9680	-3.0077	-2.9846	-2.9678	-2.9601	-2.9569	-2.9555	-2.9548	-2.9544	...	-2.9508
-0.8010	-1.2923	-1.5339	-1.6385	-1.6509	-1.6480	-1.6451	-1.6436	-1.6429	-1.6425	-1.6422	...	-1.6402

Lampiran 9. Nilai Pembobot (w_i)

w1	w2	w3	w4	w5	w6	w7	w8	w9	w10	w11	...	w62
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.8570	0.5608	0.3580	0.2072	0.1410	0.1182	0.1107	0.1084	0.1077	0.1076	0.1076	...	0.1090
0.6168	0.6347	0.8354	0.9573	0.9897	0.9963	0.9978	0.9982	0.9983	0.9984	0.9984	...	0.9983
0.5357	0.1090	0.0124	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.2480	0.1679	0.4062	0.6475	0.7587	0.7971	0.8097	0.8138	0.8151	0.8155	0.8157	...	0.8157
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.9072	0.9646	0.9995	0.9566	0.9092	0.8869	0.8788	0.8760	0.8752	0.8749	0.8749	...	0.8755
0.6168	0.6347	0.8354	0.9573	0.9897	0.9963	0.9978	0.9982	0.9983	0.9984	0.9984	...	0.9983
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.4104	0.2386	0.2585	0.3071	0.3433	0.3625	0.3714	0.3754	0.3771	0.3779	0.3783	...	0.3799
0.7648	0.7085	0.7161	0.7415	0.7624	0.7744	0.7802	0.7829	0.7841	0.7847	0.7849	...	0.7858
0.9632	0.8910	0.9006	0.9078	0.9067	0.9036	0.9013	0.9000	0.8994	0.8991	0.8989	...	0.8989
0.9632	0.8910	0.9006	0.9078	0.9067	0.9036	0.9013	0.9000	0.8994	0.8991	0.8989	...	0.8989
0.9764	0.9871	0.9862	0.9880	0.9906	0.9923	0.9932	0.9936	0.9938	0.9939	0.9940	...	0.9941
0.9632	0.8910	0.9006	0.9078	0.9067	0.9036	0.9013	0.9000	0.8994	0.8991	0.8989	...	0.8989
0.0574	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.9632	0.8910	0.9006	0.9078	0.9067	0.9036	0.9013	0.9000	0.8994	0.8991	0.8989	...	0.8989
0.7648	0.7085	0.7161	0.7415	0.7624	0.7744	0.7802	0.7829	0.7841	0.7847	0.7849	...	0.7858
0.9764	0.9978	0.9999	1.0000	0.9999	0.9998	0.9997	0.9997	0.9997	0.9997	0.9997	...	0.9997
0.9764	0.9978	0.9999	1.0000	0.9999	0.9998	0.9997	0.9997	0.9997	0.9997	0.9997	...	0.9997
0.0820	0.0009	0.0167	0.0495	0.0726	0.0834	0.0879	0.0897	0.0905	0.0909	0.0911	...	0.0922
0.7648	0.7696	0.8111	0.8370	0.8493	0.8549	0.8574	0.8585	0.8590	0.8593	0.8594	...	0.8599
0.9632	0.8448	0.8251	0.8300	0.8339	0.8344	0.8340	0.8336	0.8333	0.8332	0.8332	...	0.8334
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.9764	0.9978	0.9999	1.0000	0.9999	0.9998	0.9997	0.9997	0.9997	0.9997	0.9997	...	0.9997

0.7301	0.4070	0.3916	0.4200	0.4372	0.4426	0.4436	0.4436	0.4434	0.4434	0.4434	...	0.4442
0.7648	0.7696	0.8111	0.8370	0.8493	0.8549	0.8574	0.8585	0.8590	0.8593	0.8594	...	0.8599
0.5767	0.8807	0.9788	0.9963	0.9996	1.0000	1.0000	0.9999	0.9999	0.9999	0.9999	...	0.9999
0.8833	0.9904	0.9171	0.8769	0.8569	0.8470	0.8425	0.8406	0.8398	0.8395	0.8394	...	0.8395
0.2104	0.4628	0.6891	0.7847	0.8258	0.8426	0.8493	0.8519	0.8529	0.8533	0.8535	...	0.8541
0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.2104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0014	0.0487	0.2303	0.3594	0.4259	0.4545	0.4659	0.4704	0.4721	0.4729	0.4732	...	0.4745
0.8833	0.9904	0.9171	0.8769	0.8569	0.8470	0.8425	0.8406	0.8398	0.8395	0.8394	...	0.8395
0.5767	0.8807	0.9788	0.9963	0.9996	1.0000	1.0000	0.9999	0.9999	0.9999	0.9999	...	0.9999
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.5357	0.4118	0.4053	0.4286	0.4577	0.4848	0.5085	0.5292	0.5473	0.5632	0.5770	...	0.6732
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.9072	0.7657	0.8009	0.8309	0.8353	0.8259	0.8121	0.7977	0.7841	0.7716	0.7603	...	0.6734
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.8570	0.7035	0.7075	0.7261	0.7361	0.7395	0.7406	0.7409	0.7410	0.7410	0.7411	...	0.7416
0.0082	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.9072	0.8942	0.9060	0.9174	0.9233	0.9257	0.9267	0.9271	0.9272	0.9273	0.9273	...	0.9275
0.9072	0.8942	0.9060	0.9174	0.9233	0.9257	0.9267	0.9271	0.9272	0.9273	0.9273	...	0.9275
0.8570	0.7035	0.7075	0.7261	0.7361	0.7395	0.7406	0.7409	0.7410	0.7410	0.7411	...	0.7416
0.9985	0.9859	0.9840	0.9840	0.9840	0.9839	0.9838	0.9838	0.9838	0.9838	0.9838	...	0.9838

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.6168	0.4857	0.5195	0.5618	0.5846	0.5939	0.5973	0.5985	0.5991	0.5993	0.5994	...	0.6003
0.9764	0.9275	0.9293	0.9320	0.9295	0.9258	0.9228	0.9210	0.9199	0.9194	0.9191	...	0.9188
0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.7648	0.5481	0.5644	0.5907	0.5970	0.5939	0.5897	0.5867	0.5849	0.5839	0.5834	...	0.5833
0.9632	0.9689	0.9718	0.9764	0.9809	0.9839	0.9856	0.9865	0.9870	0.9873	0.9874	...	0.9876
0.9764	0.9275	0.9293	0.9320	0.9295	0.9258	0.9228	0.9210	0.9199	0.9194	0.9191	...	0.9188
0.7301	0.6468	0.6668	0.7003	0.7251	0.7395	0.7472	0.7511	0.7532	0.7543	0.7548	...	0.7562
0.9764	0.9275	0.9293	0.9320	0.9295	0.9258	0.9228	0.9210	0.9199	0.9194	0.9191	...	0.9188
0.7301	0.6468	0.6668	0.7003	0.7251	0.7395	0.7472	0.7511	0.7532	0.7543	0.7548	...	0.7562
0.3687	0.1787	0.2084	0.2616	0.2998	0.3206	0.3311	0.3363	0.3390	0.3404	0.3411	...	0.3432
0.6168	0.6587	0.8841	0.9710	0.9865	0.9896	0.9902	0.9904	0.9904	0.9904	0.9904	...	0.9904
0.6168	0.6587	0.8841	0.9710	0.9865	0.9896	0.9902	0.9904	0.9904	0.9904	0.9904	...	0.9904
0.9985	0.9211	0.7404	0.6082	0.5738	0.5677	0.5673	0.5677	0.5680	0.5682	0.5683	...	0.5694
0.2480	0.1896	0.4812	0.6840	0.7455	0.7618	0.7660	0.7670	0.7673	0.7674	0.7674	...	0.7678
0.9072	0.9730	0.9917	0.9403	0.9176	0.9120	0.9110	0.9109	0.9109	0.9110	0.9110	...	0.9113
0.6168	0.6587	0.8841	0.9710	0.9865	0.9896	0.9902	0.9904	0.9904	0.9904	0.9904	...	0.9904
0.5357	0.0913	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000
0.5357	0.0913	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	...	0.0000

Lampiran 10. Ringkasan hasil Estimasi Parameter Metode *Robust Scale* dengan menggunakan *Software R*

Parameter	OLS	$\hat{\beta}_s^1$	$\hat{\beta}_s^2$	$\hat{\beta}_s^3$	$\hat{\beta}_s^4$	$\hat{\beta}_s^5$	$\hat{\beta}_s^6$	$\hat{\beta}_s^7$...	$\hat{\beta}_s^{62}$
$\hat{\mu}$	3.090534979	3.019186336	3.010317953	3.002838661	2.998450175	2.995789459	2.993895413	2.992358572	...	2.981295441
\hat{a}_1	1.119341564	0.873485514	0.808476337	0.778960234	0.768880841	0.766459646	0.766644211	0.76761916	...	0.778562715
\hat{a}_2	1.971193416	2.145700822	2.201841616	2.223878428	2.229569334	2.229329814	2.227251203	2.224739412	...	2.202732726
$\hat{\beta}_1$	2.736625514	2.685355043	2.647812332	2.628050318	2.618802875	2.613538859	2.609712343	2.606540899	...	2.584194609
$\hat{\beta}_2$	0.353909465	0.333831293	0.362505621	0.374788343	0.3796473	0.3822506	0.384183071	0.385817673	...	0.397100832
$\hat{\gamma}_1$	-0.131687243	-0.018066083	-0.05501259	-0.07301234	-0.075086827	-0.071988604	-0.06811888	-0.064609123	...	-0.041175461
$\hat{\gamma}_2$	1.251028807	0.891551597	0.863488935	0.851972576	0.843967667	0.838448249	0.83476309	0.832228283	...	0.819738176
$(\widehat{a\beta})_{11}$	2.868312757	2.703421125	2.702824929	2.70106266	2.693889702	2.685527463	2.677831222	2.671150022	...	2.625370069
$(\widehat{a\beta})_{12}$	-0.897119342	-0.557720303	-0.500983313	-0.477184232	-0.464320368	-0.456197649	-0.45058002	-0.44641061	...	-0.422637344
$(\widehat{a\beta})_{21}$	1.674897119	1.595707995	1.557434749	1.537451306	1.528097708	1.522892049	1.519201009	1.516162876	...	1.494046685
$(\widehat{a\beta})_{22}$	1.41563786	1.423478341	1.452883204	1.465387356	1.470352467	1.47289741	1.474694404	1.476195696	...	1.487248756
$(\widehat{a\gamma})_{11}$	0.893004115	0.834662783	0.786142587	0.755515521	0.743546363	0.740688274	0.74140979	0.743353681	...	0.765016209
$(\widehat{a\gamma})_{12}$	0.226337449	0.038822731	0.02233375	0.023444714	0.025334478	0.025771372	0.02523442	0.024265479	...	0.013546507

$(\widehat{a\gamma})_{21}$	0.781893004	0.761045212	0.771292162	0.781935785	0.784551345	0.782203775	0.777791218	0.772809195	...	0.729030476
$(\widehat{a\gamma})_{22}$	1.189300412	1.38465561	1.430549454	1.441942643	1.445017989	1.447126038	1.449459984	1.451930217	...	1.473702249
$(\widehat{\beta\gamma})_{11}$	1.83127572	1.666344899	1.614431195	1.574641302	1.55110501	1.53694165	1.527372546	1.520132201	...	1.474491662
$(\widehat{\beta\gamma})_{12}$	0.905349794	1.019010143	1.033381136	1.053409016	1.067697865	1.076597209	1.082339797	1.086408698	...	1.109702947
$(\widehat{\beta\gamma})_{21}$	-0.156378601	-0.070636904	-0.056996446	-0.037189997	-0.023007302	-0.014049601	-0.008171537	-0.003969325	...	0.019555023
$(\widehat{\beta\gamma})_{22}$	0.510288066	0.404468197	0.419502067	0.41197834	0.402654601	0.396300201	0.392354608	0.389786998	...	0.377545809
$(\widehat{a\beta\gamma})_{111}$	1.674897119	1.292246957	1.128441029	1.04535984	1.017571096	1.012766107	1.015636444	1.020558329	...	1.065453717
$(\widehat{a\beta\gamma})_{112}$	-1.806584362	-1.31031304	-1.183453626	-1.118372181	-1.092657922	-1.084754711	-1.083755323	-1.085167453	...	-1.106629177
$(\widehat{a\beta\gamma})_{121}$	-0.781893004	-0.457584174	-0.342298441	-0.289844319	-0.274024732	-0.272077834	-0.274226653	-0.277204648	...	-0.300437508
$(\widehat{a\beta\gamma})_{122}$	2.032921811	1.34913577	1.205787376	1.141816894	1.1179924	1.110526083	1.108989743	1.109432932	...	1.120175684
$(\widehat{a\beta\gamma})_{211}$	0.156378601	0.374097942	0.485990167	0.529281463	0.533533914	0.524175542	0.511736102	0.499573872	...	0.409037945
$(\widehat{a\beta\gamma})_{212}$	2.711934156	2.329323183	2.216834763	2.171781197	2.160355787	2.16135192	2.16609512	2.171576151	...	2.216332124
$(\widehat{a\beta\gamma})_{221}$	0.625514403	0.38694727	0.285301995	0.252654322	0.251017431	0.258028233	0.266055116	0.273235324	...	0.319992531
$(\widehat{a\beta\gamma})_{222}$	-1.522633745	-0.944667573	-0.7862853	-0.7298385	-0.715337798	-0.714225882	-0.716635136	-0.719645934	...	-0.742629875

Lampiran 11. Uji Normalitas

Tabel 4. Uji Normalitas Kolmogorov-Smirnov dan Shapiro-Wilk

Tests of Normality						
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
Standardized Residual for RS	.070	72	.200*	.988	72	.710

Lampiran 12. Uji Homoskedastisitas

Tabel 5. Uji Homoskedastisitas (Leneve's Test)

Levene's Test of Equality of Error Variances^{a,b}					
		Levene Statistic	df1	df2	Sig.
Robust S	Based on Mean	1.855	7	64	.092
	Based on Median	.994	7	64	.444
	Based on Median and with adjusted df	.994	7	54.124	.446
	Based on trimmed mean	1.755	7	64	.112

Lampiran 13. Uji ANAVA

Tabel 6. Uji ANAVA (Analisis Varians)

Tests of Between-Subjects Effects					
Dependent Variable: Robust S					
Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	604.664 ^a	7	86.381	12.328	.000
Intercept	6531.919	1	6531.919	932.252	.000
A	24.011	1	24.011	3.427	.069
B	226.784	1	226.784	32.367	.000
C	7.721	1	7.721	1.102	.298
A * B	172.915	1	172.915	24.679	.000
A * C	17.783	1	17.783	2.538	.116
B * C	.035	1	.035	.005	.944
A * B * C	155.415	1	155.415	22.181	.000
Error	448.423	64	7.007		
Total	7585.005	72			
Corrected Total	1053.087	71			
a. R Squared = .574 (Adjusted R Squared = .528)					

Lampiran 14. *Syntax* Program R untuk mencari penduga parameter dengan *Robust Scale*

```

library(pracma)
X <- as.matrix(read.csv('Muhammad Anugrah Ariansyah/Variable X.csv'))
Y <- as.matrix(read.csv('Muhammad Anugrah Ariansyah/Variable Y.csv'))
A <- pinv(t(X)%*%X)
B_MKT <- A%*%(t(X))%*%Y
Hasil <- data.frame(OLS = B_MKT)

YTop1 <- X %*% B_MKT
e1 <- (Y - YTop1)
se <- sum(abs(e1))

P1 <- matrix(0,72,1)
VARs1 <- (median(abs(e1-median(e1))))/.6745
u1 <- (e1/VARS1)
for (i in 1:72) {
  if(abs(u1[i,1])<=1.547) {
    P1[i,1] <- (1-((u1[i,1])/1.547)^2)^2
  } else {
    P1[i,1] <- 0
  }
}

w1 <- matrix(diag(as.numeric(P1)), ncol = 72)
P <- 1
RobustS <- (pinv((t(X))%*%w1%*%X)%*%(t(X))%*%w1%*%Y)
G <- 1
P2 <- matrix(0,72,1)
while (abs(G)>0.0001) {
  Ytopi2 <- (X%*%RobustS)
  e2 <- (Y - Ytopi2)
  se2 <- sum(abs(e2))
  G <- se2 - se
  se <- se2
  VARs2 <- sqrt((1/(72 * .199)) * (sum(P1*(e2*e2))))
  u2 <- (e2/VARS2)

  for (i in 1:72) {
    if(abs(u2[i,1])<=1.547) {
      P2[i,1] <- (1-(((u2[i,1])/1.547)^2))^2
    } else {
      P2[i,1] <- 0
    }
  }
}

```

```
w2 <- matrix(diag(as.numeric(P2)), ncol = 72)
P <- P + 1
RobustS <- (pinv((t(X))%*%w2%*%X)%*%(t(X))%*%w2%*%Y)
Hasil <- cbind(Hasil, RobustS)
}

YtopiakS <- (X%*%RobustS)
Error_RobS <- (Y - YtopiakS)

names(Hasil) <- c("OLS",paste0("BS",1:(P-1)))

#Outlier Detection
codeOutlier <- c(1,43)
```