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Nim : 1910106056

kelas: B1

EVALUASI PRAKTIKUM BIOSTATISTIK

(PART 2)

DOSEN PENGAMPU : SHOLAIKHAH SULISTYONINGTYAS

1. Kerjakan Soal Sesuai dengan analisi yang dibutuhkan
2. Baca dengan teliti setiap Pertanyaan yang ada
3. Kerjakan Sesuai Perintah dengan Aplikasi SPSS
4. Setelah selesai menglah data , berilah penjelasan mengenai hasil output yang diperroleh
- 5. Jika hanya menampilkan output tanpa menyampaikn hasilnya, maka mendapatkan nilai 0**

SOAL

Hasil Pre		Hasil post	
Total	Kode	Total	Kode
60	2	44	1
52	1	49	1
76	2	46	1
69	2	44	1
74	2	43	1
53	1	48	1
61	2	45	1
89	2	78	2
74	2	52	1
72	2	45	1
83	2	50	1
70	2	44	1
66	2	43	1
78	2	78	2
64	2	52	1
79	2	79	2
77	2	77	2

64	2	52	1
67	2	45	1
62	2	52	1
51	1	51	1
77	2	77	2
70	2	43	1
79	2	79	2
82	2	82	2
71	2	50	1
79	2	52	1
54	2	47	1
71	2	71	2

Kode

1 : Tidak Cemas

2.: cemas

Pertanyaan :

1. Bagaimanakah pengaruh penyuluhan terhadap kecemasan remaja dalam menghadapi masa pubertas?? Uji apakah yang tepat untuk mengetahui pengaruh atau uji beda pada kasus diatas?

JAWAB: Berdasarkan uji yang telah dilakukan dengan menggunakan uji **paired T Test** terdapat perbedaan uji beda pre dan post penyuluhan terhadap kecemasan remaja dalam menghadapi pubertas dikarenakan nilai sig yang diperoleh $< 0,05$ yaitu: 0,000

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pre	69.79	29	9.865	1.832
	Post	55.79	29	14.118	2.622

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Pre & Post	29	.578	.001

Paired Samples Test

	Mean	Std. Deviation	Paired Differences		t	df	Sig. (2-tailed)	
			Std. Error	95% Confidence Interval of the Difference				
				Mean				Lower
Pair 1 Pre - Post	14.000	11.644	2.162	9.571	18.429	6.475	28	.000

2. Data diatas dinyatakan tidak berdistribusi normal maka uji apa yang digunakan untuk mengetahui adakah pengaruh dari ke2 variabel tersebut??

JAWAB: menggunakan uji data Wilcoxon, berdasarkan hasil yang di dapatkan terdapat pengaruh penyuluhan terhadap kecemasan remaja dalam masa pubertas dengan nilai sig (2-taillet) 0,000

Wilcoxon Signed Ranks Test

		Ranks		
		N	Mean Rank	Sum of Ranks
Post - Pre	Negative Ranks	21 ^a	11.00	231.00
	Positive Ranks	0 ^b	.00	.00
	Ties	8 ^c		
	Total	29		

- a. Post < Pre
- b. Post > Pre
- c. Post = Pre

Test Statistics^a

Post - Pre	
Z	-4.017 ^b
Asymp. Sig. (2-tailed)	.000

- a. Wilcoxon Signed Ranks Test
- b. Based on positive ranks.

PERTANYAAN

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25
R1	1	4	2	1	1	2	1	1	1	1	2	4	4	4	3	1	4	2	1	4	2	2	3	4	3
R2	1	4	4	3	3	3	1	1	1	1	4	1	1	1	1	4	1	1	2	1	4	1	1	1	1
R3	4	3	3	4	4	1	2	3	3	4	4	1	2	2	4	1	4	3	4	2	3	3	4	1	1
R4	1	1	1	4	1	2	4	4	3	3	4	1	1	2	4	1	2	4	3	4	2	4	4	3	1
R5	1	4	3	4	3	2	4	1	4	4	3	1	1	2	3	4	4	3	4	1	2	1	4	1	2
R6	4	1	1	1	1	1	1	3	2	1	1	2	3	1	4	3	2	2	2	3	3	3	2	1	1
R7	4	1	4	4	4	2	4	2	3	1	1	2	2	2	3	2	1	1	3	4	1	1	1	1	2
R8	3	4	4	4	3	3	2	3	4	4	4	4	4	3	3	4	1	4	4	4	4	4	4	2	2
R9	1	1	4	4	4	4	3	3	4	3	3	1	1	2	3	2	3	3	3	2	3	3	3	3	2
R10	1	1	4	4	4	2	1	4	3	4	4	1	1	1	3	1	3	4	4	1	3	4	4	3	2
R11	3	4	3	4	4	4	1	4	4	4	3	1	2	2	1	2	4	3	4	4	4	3	1	4	2
R12	4	3	4	4	4	2	2	4	4	4	4	1	4	2	1	3	1	1	1	1	3	2	2	2	4
R13	2	4	4	4	4	1	2	3	3	4	4	1	2	2	2	2	3	3	1	2	1	2	2	1	4
R14	2	2	4	4	4	3	4	4	3	4	4	4	4	1	4	1	4	1	1	4	4	1	1	1	4
R15	4	3	2	1	3	3	2	1	2	1	3	2	3	1	1	2	1	3	3	4	1	3	3	3	4
R16	2	4	4	4	4	2	3	2	3	3	4	2	2	2	4	1	3	4	3	2	4	3	3	3	3
R17	2	4	4	4	4	2	3	3	3	3	3	1	2	2	4	1	3	4	3	2	4	3	3	3	3
R18	2	3	4	3	3	2	1	3	2	2	2	3	2	4	2	3	2	3	2	2	2	1	3	2	2
R19	1	1	3	3	2	4	4	2	1	2	3	1	4	3	1	1	1	3	1	3	2	3	4	4	4
R20	2	1	3	3	2	4	4	2	1	2	3	1	3	3	1	1	2	3	2	3	3	1	1	2	4
R21	1	1	4	1	1	4	2	1	1	1	3	1	1	1	1	1	1	3	1	2	3	1	4	4	2
R22	1	4	4	4	4	4	1	2	3	4	3	1	4	2	2	1	2	3	2	4	4	3	4	4	3
R23	2	4	2	4	4	4	4	1	2	2	4	1	2	3	3	1	1	2	2	4	2	2	3	3	3
R24	1	4	4	4	4	3	2	4	4	4	3	4	2	1	4	4	1	1	3	2	3	3	2	3	2
R25	4	4	3	2	2	3	4	4	4	3	3	1	3	3	4	4	4	4	1	2	4	3	4	3	1
R26	2	1	2	1	2	4	4	3	3	4	4	3	4	1	1	3	4	2	1	2	4	3	4	3	1
R27	1	3	4	4	3	4	4	3	3	4	3	2	1	3	2	3	4	2	4	2	4	3	4	3	1
R28	1	2	1	4	4	2	2	2	2	3	2	1	1	1	2	1	2	2	3	1	1	1	4	4	2
R29	1	4	4	4	4	2	2	4	4	4	3	1	1	1	4	1	4	4	4	2	1	1	4	2	1

R30 2 3 4 4 4 4 4 2 2 2 2 3 3 3 2 3 4 4 4 3 2 2 2 2 3

8. Lakukan Uji validitas dan Reliabilitas pada Responden di atas.

Jawaban : berdasarkan hasil Uji validitas dan Reliabilitas didapatkan hasil

- valid 13
- tidak valid 14

berdasarkan hasil uji reabilitas di dapatkan hasil $< 0,70$ maka data di atas tidak reabilitas



Output

- Log
- Correlations
 - Title
 - Notes
 - Active Dataset
 - Correlations
- Log
- Reliability
 - Title
 - Notes
 - Active Dataset
 - Scale: ALL VARIA
 - Title
 - Case Proces
 - Reliability St
 - Item-Total St

```

CORRELATIONS
/VARIABLES=p1 p2 p3 p4 p5 p6 p7 p8 p9 p10 p11 p12 p13 p14 p15 p16 p17 p18 p19 p20 p21 p22 p23 p24 p25 p26 p27 Total
/PRINT=TWOTAIL NOSIG
/MISSING=PAIRWISE.
    
```

Correlations

[DataSet0]

		Correlations													
		p1	p2	p3	p4	p5	p6	p7	p8	p9	p10	p11	p12	p13	p14
p1	Pearson Correlation	1	.098	-.087	-.189	.050	-.240	-.015	.172	.206	-.121	-.138	.033	.378*	.031
	Sig. (2-tailed)		.608	.648	.317	.792	.201	.939	.362	.274	.524	.468	.862	.040	.871
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p2	Pearson Correlation	.098	1	.381*	.409*	.527**	-.016	-.150	.055	.431*	.385*	.295	-.055	-.083	.066
	Sig. (2-tailed)	.608		.038	.025	.003	.933	.430	.771	.017	.035	.114	.772	.663	.731
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p3	Pearson Correlation	-.087	.381*	1	.471**	.547**	.221	-.015	.206	.318	.311	.228	.011	-.109	-.007
	Sig. (2-tailed)	.648	.038		.009	.002	.240	.935	.274	.086	.095	.226	.952	.566	.972
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p4	Pearson Correlation	-.189	.409*	.471**	1	.754**	-.017	.162	.336	.498**	.582**	.275	-.187	-.312	.055
	Sig. (2-tailed)	.317	.025	.009		.000	.930	.392	.069	.005	.001	.142	.321	.093	.773
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p5	Pearson Correlation	.050	.527**	.547**	.754**	1	.002	-.061	.212	.478**	.483**	.197	-.087	-.171	-.173
	Sig. (2-tailed)	.792	.003	.002	.000		.992	.748	.261	.008	.007	.296	.649	.366	.362
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p6	Pearson Correlation	-.240	-.016	.221	-.017	.002	1	.361	-.143	-.095	-.002	.137	-.025	.129	.078
	Sig. (2-tailed)	.201	.933	.240	.930	.992		.050	.450	.616	.993	.470	.895	.497	.682
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30

Item	Statistic	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
p7	Pearson Correlation		-.015	-.150	-.015	.162	-.061	.361		-.036	.075	.057	.102	-.020	.049	.195		
	Sig. (2-tailed)		.939	.430	.935	.392	.748	.050		.850	.692	.766	.591	.915	.797	.302		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p8	Pearson Correlation		.172	.055	.206	.336	.212	-.143	-.036	1	.661**	.644**	.217	.069	.018	-.157		
	Sig. (2-tailed)		.362	.771	.274	.069	.261	.450	.850		.000	.000	.250	.716	.924	.408		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p9	Pearson Correlation		.206	.431*	.318	.498**	.478**	-.095	.075	.661**	1	.768**	.253	.004	-.095	-.168		
	Sig. (2-tailed)		.274	.017	.086	.005	.008	.616	.692	.000		.000	.178	.983	.618	.375		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p10	Pearson Correlation		-.121	.385*	.311	.582**	.483**	-.002	.057	.644**	.768**	1	.535**	-.024	-.017	-.151		
	Sig. (2-tailed)		.524	.035	.095	.001	.007	.993	.766	.000	.000		.002	.898	.930	.425		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p11	Pearson Correlation		-.138	.295	.228	.275	.197	.137	.102	.217	.253	.535**	1	-.152	.000	-.172		
	Sig. (2-tailed)		.468	.114	.226	.142	.296	.470	.591	.250	.178	.002		.423	1.000	.363		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p12	Pearson Correlation		.033	-.055	.011	-.187	-.087	-.025	-.020	.069	.004	-.024	-.152	1	.469**	.176		
	Sig. (2-tailed)		.862	.772	.952	.321	.649	.895	.915	.716	.983	.898	.423		.009	.352		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p13	Pearson Correlation		.378*	-.083	-.109	-.312	-.171	.129	.049	.018	-.095	-.017	.000	.469**	1	.279		
	Sig. (2-tailed)		.040	.663	.566	.093	.366	.497	.797	.924	.618	.930	1.000	.009		.136		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p14	Pearson Correlation		.031	.066	-.007	.055	-.173	.078	.195	-.157	-.168	-.151	-.172	.176	.279	1		
	Sig. (2-tailed)		.871	.731	.972	.773	.362	.682	.302	.408	.375	.425	.363	.352	.136			
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p15	Pearson Correlation		.061	.146	-.037	.274	.124	-.493**	.114	.374*	.428*	.224	-.023	.182	-.167	-.049		
	Sig. (2-tailed)		.750	.443	.847	.143	.515	.006	.550	.042	.018	.235	.905	.335	.379	.798		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p16	Pearson Correlation		.227	.349	.177	-.092	-.060	.069	-.005	.100	.324	.080	-.073	.305	.059	.061		
	Sig. (2-tailed)		.228	.059	.349	.628	.752	.717	.980	.599	.081	.673	.701	.101	.755	.748		
	N		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
p17	Pearson Correlation		-.084	.090	-.005	.077	.096	-.121	.167	.298	.322	.441*	.044	.068	-.056	.103		
	Sig. (2-tailed)																	
	N																	



Correla	Sig. (2-tailed)	.837	.140	.409	.003	.020	.804	.839	.490	.028	.107	.779	.750	.005	.672	.148	.698
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Tit	Pearson Correlation	.227	-.126	-.268	-.111	-.177	.218	.123	-.107	-.133	-.254	-.166	.338	.469**	.284	.062	-.270
	Sig. (2-tailed)	.227	.507	.152	.558	.350	.248	.518	.573	.483	.175	.381	.067	.009	.129	.745	.149
Nc	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Ac	Pearson Correlation	.033	.181	.296	.003	-.030	.351	-.020	.268	.212	.315	.378*	.123	.225	-.026	.051
Sig. (2-tailed)		.862	.338	.112	.989	.874	.058	.915	.152	.260	.090	.040	.516	.231	.892	.787	.231
Ce	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Reliabi	Pearson Correlation	.135	.008	-.122	.029	-.071	.052	-.055	.387*	.341	.318	.303	.040	.165	.024	.234
Sig. (2-tailed)		.477	.965	.519	.878	.710	.786	.773	.035	.065	.087	.103	.832	.385	.899	.213	.841
Tit	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Nc	Pearson Correlation	-.285	-.015	-.182	-.089	-.211	-.015	.054	-.020	.129	.271	.177	-.177	-.139	.067	.155
Sig. (2-tailed)		.127	.936	.336	.639	.263	.938	.775	.916	.498	.148	.348	.350	.463	.724	.414	.510
Ac	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Sc	Pearson Correlation	-.375*	-.138	-.240	-.190	-.178	.424*	-.095	-.092	-.145	-.023	-.022	-.095	.046	.120	-.244
Sig. (2-tailed)		.041	.468	.201	.315	.347	.020	.619	.630	.445	.903	.909	.618	.808	.528	.194	.052
Tit	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Nc	Pearson Correlation	.045	.008	.144	.082	.219	.107	.103	-.239	-.251	-.097	.107	.067	.483**	.193	-.308
Sig. (2-tailed)		.812	.967	.448	.665	.246	.574	.587	.203	.181	.611	.574	.726	.007	.308	.098	.065
Ac	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Sc	Pearson Correlation	.008	.070	-.006	-.035	-.190	.473**	.515**	-.093	.106	-.005	-.143	-.003	-.107	.242	-.101
Sig. (2-tailed)		.967	.713	.976	.855	.316	.008	.004	.626	.578	.978	.451	.988	.574	.197	.597	.179
Tit	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Nc	Pearson Correlation	-.055	.081	.187	.268	.327	.009	-.168	.156	.233	.237	.281	-.155	-.220	-.416*	.102
Sig. (2-tailed)		.774	.669	.322	.153	.078	.962	.375	.411	.215	.208	.132	.414	.243	.022	.591	.930
Ac	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Sc	Pearson Correlation	.119	.510**	.410*	.529**	.458*	.255	.276	.510**	.736**	.724**	.402*	.178	.173	.186	.330
Sig. (2-tailed)		.531	.004	.024	.003	.011	.173	.140	.004	.000	.000	.028	.345	.361	.326	.075	.282
Tit	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).



- relatic
- Title
- Note
- Active
- Corr
- liability
- Title
- Note
- Active
- Scale

```

/SCALE=ALL VARIABLES / ADD
/MODEL=ALPHA
/SUMMARY=TOTAL.
    
```

Reliability

→ [DataSet0]

Scale: ALL VARIABLES

Case Processing Summary

		N	%
Cases	Valid	30	100.0
	Excluded ^a	0	.0
Total		30	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	N of Items
.687	27

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
p1	67.87	99.085	.003	.697
p2	67.23	88.737	.402	.662
p3	66.70	92.700	.313	.672



Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
p1	67.87	99.085	.003	.697
p2	67.23	88.737	.402	.662
p3	66.70	92.700	.313	.672
p4	66.60	89.628	.439	.660
p5	66.77	91.564	.365	.667
p6	67.17	96.144	.151	.684
p7	67.30	95.252	.158	.685
p8	67.27	90.478	.422	.663
p9	67.17	86.144	.682	.642
p10	67.03	84.585	.659	.639
p11	66.80	94.166	.324	.673
p12	68.13	97.775	.069	.691
p13	67.57	97.840	.058	.692
p14	67.87	97.913	.094	.688
p15	67.33	94.023	.218	.679
p16	67.83	97.109	.088	.690
p17	67.37	92.378	.273	.674
p18	67.17	93.730	.280	.674
p19	67.37	92.033	.318	.671
p20	67.33	98.851	.020	.695
p21	67.13	91.568	.365	.667
p22	67.57	90.875	.437	.663
p23	66.97	98.102	.049	.693
p24	67.37	100.861	-.070	.701
p25	67.57	101.840	-.115	.705
p26	67.20	96.234	.138	.686
p27	67.73	97.099	.087	.690

Double click to edit Text

IBM SPSS Statistics Processor is ready

Unicode:ON

H: 22, W: 1097 pt.