

# BINUS University

<b>Academic Career:</b> <i>Undergraduate / <del>Master</del> / <del>Doctoral</del> *)</i>		<b>Class Program:</b> <i><del>International</del> / <del>Regular</del> / <del>Smart Program</del> / <del>Global-Class</del> / BINUS Online Learning *)</i>	
<input type="checkbox"/> Mid Exam <input type="checkbox"/> Compact Term Exam <input checked="" type="checkbox"/> Final Exam <input type="checkbox"/> Others Exam : _____		<b>Term : <del>Odd</del> / Even / <del>Compact</del> *)</b> <b>Period (Only for BOL) : 1 / 2 *)</b>	
<input type="checkbox"/> Kemanggisan <input type="checkbox"/> Senayan <input type="checkbox"/> Semarang <input type="checkbox"/> Alam Sutera <input type="checkbox"/> Bandung <input type="checkbox"/> Bekasi <input type="checkbox"/> Malang		<b>Academic Year :</b>  2023/2024	
Exam Type* : <del>Onsite</del> / Online		Faculty / Dept. : BINUS Online / Computer Science	
Day / Date** : Monday – Monday/May 13 – 20, 2024		Code - Course : STAT6192036 – Basic Statistics	
Time** : 00:00 – 12:00 WIB		Code - Lecturer : Lecturer Team	
Exam Specification*** : <div style="display: inline-block; width: 45%;"> <input checked="" type="checkbox"/> Open Book                      <input checked="" type="checkbox"/> Open Notes  <input type="checkbox"/> Close Book                      <input type="checkbox"/> Submit Project  <input checked="" type="checkbox"/> Open E-Book                      <input type="checkbox"/> Oral Test         </div>		BULC (Only for BOL) : Bandung, Bekasi, Jakarta, Malang, Palembang, Semarang	
Equipment*** : <div style="display: inline-block; width: 45%;"> <input type="checkbox"/> Exam Booklet    <input checked="" type="checkbox"/> Laptop                      <input type="checkbox"/> Drawing Paper – A3  <input checked="" type="checkbox"/> Calculator                      <input type="checkbox"/> Tablet                      <input type="checkbox"/> Drawing Paper – A2  <input type="checkbox"/> Dictionary                      <input type="checkbox"/> Smartphone                      <input type="checkbox"/> Notes         </div>		Class : T6CA; T7CA Student ID *** : _____ Name *** : _____ Signature *** : _____	
*) Strikethrough the unnecessary items                      **) For Online Exam, this is the due date                      ***) Only for Onsite Exam			
<p><b>Please insert the test paper into the exam booklet and submit both papers after the test.</b></p> <p><b>The penalty for CHEATING is DROP OUT!</b></p>			

No	Daftar Pertanyaan	Bobot
1	<p>Diberikan data tentang informasi umum penduduk negara United States of America (USA) pada dataset <b>Sheet 1</b></p> <p>a. Tentukan jenis variabel dan skala pengukuran dari semua variabel pada dataset tersebut.</p> <p>b. Hitung mean, varians, standar deviasi, <i>Interquartile Range (IQR)</i> dan koefisien variasi untuk masing-masing variabel numerik pada dataset tersebut.</p> <p>c. Dengan menggunakan Ms. Excel, buatlah visualisasi dari masing-masing variabel pada dataset tersebut. Berikan interpretasinya.</p>	25%
2	<p>Lama tidur orang dewasa di USA rata-rata adalah 6.8 jam dengan standar deviasi 0.6 jam</p> <p>a. Berapa peluang mendapatkan orang dewasa yang lama tidurnya lebih dari 8 jam?</p> <p>a. Berapa persen (peluang) mendapatkan orang dewasa yang lamatidurnya antara 7 sampai 8.2 jam?</p>	25%

Verified by,



Immanuela Puspasari Saputro, S.Si.,M.T (D6505) and sent to Department on April 15, 2024

3	<b>Kerjakan menggunakan Ms.Excel.</b> Perhatikan data dalam file <b>Sheet 3</b> . Lakukan pengujian hipotesis apakah nilai <i>writing score</i> lebih kecil dibanding nilai <i>reading score</i> . Gunakan taraf signifikansi 0.10. Asumsikan bahwa varians kedua populasi sama.	25%
4	<b>Kerjakan menggunakan Ms. Excel.</b> Perhatikan data dalam file <b>Sheet 4</b> . Pada dataset tersebut terdapat dua variabel,yaitu <i>price</i> yang menjelaskan harga jual mobil dan <i>horse power</i> yang menjelaskan daya dari mobil tersebut. <ol style="list-style-type: none"> <li>Tentukan variabel independen dan variabel dependennya.</li> <li>Lakukan analisis korelasi dari dua variabel tersebut.</li> </ol> Buatlah model regresinya dan berikan interpretasinya.	25%

Verified by,



Immanuela Puspasari Saputro, S.Si.,M.T (D6505) and sent to Department on April 15, 2024

Sheet 1

age	workclass	education	marital-status	occupation	hours-per-week
39	State-gov	Bachelors	Never-married	Adm-clerical	40
50	Self-emp-not-inc	Bachelors	Married-civ-spouse	Exec-managerial	13
38	Private	HS-grad	Divorced	Handlers-cleaners	40
53	Private	11th	Married-civ-spouse	Handlers-cleaners	40
28	Private	Bachelors	Married-civ-spouse	Prof-specialty	40
37	Private	Masters	Married-civ-spouse	Exec-managerial	40
49	Private	9th	Married-spouse-absent	Other-service	16
52	Self-emp-not-inc	HS-grad	Married-civ-spouse	Exec-managerial	45
31	Private	Masters	Never-married	Prof-specialty	50
42	Private	Bachelors	Married-civ-spouse	Exec-managerial	40
37	Private	Some-college	Married-civ-spouse	Exec-managerial	80
30	State-gov	Bachelors	Married-civ-spouse	Prof-specialty	40
23	Private	Bachelors	Never-married	Adm-clerical	30
32	Private	Assoc-acdm	Never-married	Sales	50
40	Private	Assoc-voc	Married-civ-spouse	Craft-repair	40
34	Private	7th-8th	Married-civ-spouse	Transport-moving	45
25	Self-emp-not-inc	HS-grad	Never-married	Farming-fishing	35
32	Private	HS-grad	Never-married	Machine-op-inspct	40
38	Private	11th	Married-civ-spouse	Sales	50
43	Self-emp-not-inc	Masters	Divorced	Exec-managerial	45
40	Private	Doctorate	Married-civ-spouse	Prof-specialty	60
54	Private	HS-grad	Separated	Other-service	20
35	Federal-gov	9th	Married-civ-spouse	Farming-fishing	40
43	Private	11th	Married-civ-spouse	Transport-moving	40
59	Private	HS-grad	Divorced	Tech-support	40
56	Local-gov	Bachelors	Married-civ-spouse	Tech-support	40
19	Private	HS-grad	Never-married	Craft-repair	40
54	?	Some-college	Married-civ-spouse	?	60
39	Private	HS-grad	Divorced	Exec-managerial	80
49	Private	HS-grad	Married-civ-spouse	Craft-repair	40
23	Local-gov	Assoc-acdm	Never-married	Protective-serv	52
20	Private	Some-college	Never-married	Sales	44
45	Private	Bachelors	Divorced	Exec-managerial	40
30	Federal-gov	Some-college	Married-civ-spouse	Adm-clerical	40
22	State-gov	Some-college	Married-civ-spouse	Other-service	15
48	Private	11th	Never-married	Machine-op-inspct	40
21	Private	Some-college	Never-married	Machine-op-inspct	40
19	Private	HS-grad	Married-AF-spouse	Adm-clerical	25
31	Private	Some-college	Married-civ-spouse	Sales	38
48	Self-emp-not-inc	Assoc-acdm	Married-civ-spouse	Prof-specialty	40
31	Private	9th	Married-civ-spouse	Machine-op-inspct	43
53	Self-emp-not-inc	Bachelors	Married-civ-spouse	Prof-specialty	40
24	Private	Bachelors	Married-civ-spouse	Tech-support	50
49	Private	HS-grad	Separated	Adm-clerical	40
25	Private	HS-grad	Never-married	Handlers-cleaners	35
57	Federal-gov	Bachelors	Married-civ-spouse	Prof-specialty	40
53	Private	HS-grad	Married-civ-spouse	Machine-op-inspct	38
44	Private	Masters	Divorced	Exec-managerial	40
41	State-gov	Assoc-voc	Married-civ-spouse	Craft-repair	40
29	Private	Assoc-voc	Never-married	Prof-specialty	43
25	Private	Some-college	Married-civ-spouse	Exec-managerial	40
18	Private	HS-grad	Never-married	Other-service	30
47	Private	Prof-school	Married-civ-spouse	Prof-specialty	60

50	Federal-gov	Bachelors	Divorced	Exec-managerial	55
47	Self-emp-inc	HS-grad	Divorced	Exec-managerial	60
43	Private	Some-college	Married-civ-spouse	Tech-support	40
46	Private	5th-6th	Married-civ-spouse	Machine-op-inspct	40
35	Private	Assoc-voc	Married-civ-spouse	Other-service	40
41	Private	HS-grad	Married-civ-spouse	Adm-clerical	48
30	Private	HS-grad	Married-civ-spouse	Machine-op-inspct	40
30	Private	Bachelors	Married-civ-spouse	Sales	40
32	?	7th-8th	Married-spouse-absent	?	40
48	Private	HS-grad	Married-civ-spouse	Transport-moving	40
42	Private	Doctorate	Married-civ-spouse	Prof-specialty	45
29	Private	Some-college	Divorced	Tech-support	58
36	Private	HS-grad	Married-civ-spouse	Craft-repair	40
28	Private	Some-college	Divorced	Adm-clerical	40
53	Private	HS-grad	Married-civ-spouse	Adm-clerical	40
49	Self-emp-inc	Some-college	Married-civ-spouse	Exec-managerial	50
25	?	Some-college	Never-married	?	40
19	Private	Some-college	Never-married	Prof-specialty	32
31	Private	Bachelors	Separated	Sales	40
29	Self-emp-not-inc	Bachelors	Married-civ-spouse	Sales	70
23	Private	Some-college	Never-married	Machine-op-inspct	40
79	Private	Some-college	Married-civ-spouse	Prof-specialty	20
27	Private	HS-grad	Never-married	Other-service	40
40	Private	Assoc-acdm	Married-civ-spouse	Adm-clerical	40
67	?	10th	Married-civ-spouse	?	2
18	Private	11th	Never-married	Other-service	22
31	Local-gov	7th-8th	Married-civ-spouse	Farming-fishing	40
18	Private	HS-grad	Never-married	Sales	30
52	Private	Bachelors	Married-civ-spouse	Other-service	40
46	Private	HS-grad	Married-civ-spouse	Other-service	40
59	Private	HS-grad	Married-civ-spouse	Sales	48
44	Private	HS-grad	Divorced	Craft-repair	40
53	Private	HS-grad	Divorced	Sales	35
49	Local-gov	HS-grad	Married-civ-spouse	Protective-serv	40
33	Private	Masters	Married-civ-spouse	Prof-specialty	50
30	Private	9th	Never-married	Sales	40
43	Federal-gov	Doctorate	Never-married	Prof-specialty	50
57	Private	Assoc-voc	Married-civ-spouse	Prof-specialty	40
37	Private	Some-college	Divorced	Craft-repair	40
28	Private	Some-college	Divorced	Machine-op-inspct	25
30	Private	HS-grad	Married-civ-spouse	Sales	35
34	Local-gov	Bachelors	Married-civ-spouse	Protective-serv	40
29	Local-gov	Some-college	Never-married	Handlers-cleaners	50
48	Self-emp-not-inc	Doctorate	Married-civ-spouse	Prof-specialty	60
37	Private	Some-college	Married-civ-spouse	Sales	48
48	Private	Assoc-acdm	Divorced	Exec-managerial	40
32	Federal-gov	HS-grad	Never-married	Other-service	40
76	Private	Masters	Married-civ-spouse	Exec-managerial	40
44	Private	Bachelors	Married-civ-spouse	Exec-managerial	60
47	Self-emp-not-inc	Masters	Never-married	Prof-specialty	50
20	Private	Some-college	Never-married	Tech-support	40
29	Private	HS-grad	Never-married	Craft-repair	40
32	Self-emp-inc	HS-grad	Married-civ-spouse	Craft-repair	40
17	?	10th	Never-married	?	32
30	Private	11th	Never-married	Handlers-cleaners	40

31	Local-gov	HS-grad	Never-married	Adm-clerical	40
42	Private	HS-grad	Married-civ-spouse	Handlers-cleaners	40
24	Private	Bachelors	Never-married	Sales	40
38	Private	Prof-school	Married-civ-spouse	Prof-specialty	40
56	Self-emp-not-inc	HS-grad	Married-civ-spouse	Other-service	50
28	Private	Some-college	Married-civ-spouse	Sales	25
36	Private	HS-grad	Never-married	Machine-op-inspct	40
53	Private	9th	Married-civ-spouse	Handlers-cleaners	50
56	Self-emp-inc	Some-college	Married-civ-spouse	Sales	50
49	Local-gov	Assoc-voc	Married-civ-spouse	Craft-repair	40
55	Private	Some-college	Married-civ-spouse	Sales	56
22	Private	HS-grad	Never-married	Craft-repair	41
21	Private	Some-college	Never-married	Other-service	40
40	Private	Bachelors	Married-civ-spouse	Exec-managerial	60
30	Private	Bachelors	Never-married	Exec-managerial	40
29	State-gov	Bachelors	Married-civ-spouse	Prof-specialty	50
19	Private	Some-college	Never-married	Other-service	35
47	Private	Bachelors	Married-civ-spouse	Exec-managerial	40
20	Private	Some-college	Never-married	Adm-clerical	28

### Sheet 3

reading score    writing score

72	74
90	88
95	93
57	44
78	75
83	78
95	92
43	39
64	67
60	50
54	52
52	43
81	73
72	70
53	58
75	78
89	86
32	28
42	46
58	61
69	63
75	70
54	53
73	73
71	80
74	72
54	55
69	75
70	65
70	75
74	74
65	61
72	65
42	38
87	82
81	79
81	83
64	59
90	88
56	57
61	54

73	68
58	65
65	66
56	54
54	57
65	62
71	76
74	76
84	82
55	48
69	68
44	42
78	75
84	87
41	43
85	86
55	49
59	58
17	10
74	72
39	34
61	55
80	71
58	59
64	61
37	37
72	74
58	56
64	57
63	73
55	63
51	48
57	56
49	41
41	38
26	22
78	81
74	72
68	68
49	50
45	45
47	54
64	63

39	34
80	82
83	88
71	74
70	67
86	82
72	74
34	36
79	71
45	50
86	92
81	82
66	62
72	70
67	62
67	62
67	67
74	74
91	89
44	47
86	90
67	72
100	100
63	64
76	70



Sheet 4

price	horse power
21500	140
28400	225
21500	225
42000	210
23990	150
33950	200
62000	310
26990	170
33400	193
38900	193
21975	175
25300	240
31965	205
27885	205
39895	275
44475	275
39665	275
31010	200
46225	255
13260	115
16535	170
18890	175
19390	180
24340	200
45705	345
13960	120
9235	55
18890	180
19840	163
24495	168
22245	200
16480	132
28340	253
29185	253
12640	132
19045	163
20230	168
22505	202
69725	450
19460	230
21315	175

18575	175
16980	120
26310	230
19565	150
12070	110
21560	190
17035	170
17885	155
12315	107
22195	200
31930	210
21410	150
36135	240
12050	119
26935	220
12885	106
15350	135
20550	146
26600	205
26000	210
9699	92
11799	140
14999	148
29465	227
42800	240
14460	120
21620	190
26895	195
31505	210
37805	225
46305	300
54005	290
60105	230
34605	220
39080	275
43330	215
42660	300
13987	113
19047	154
17357	145
24997	210
25450	161
31807	200

22527	173
16240	125
16540	125
19035	153
22605	200
27560	210
22510	170
31750	185
49900	221
69700	275
82600	302
38900	190
41000	185
41600	215
85500	302
35300	215
13499	126
20390	155
26249	222
26399	170
29299	170
22799	170
17890	170
18145	150
24150	215
18270	150
36229	250
31598	190
25345	185
12640	132
16080	132
18850	150
43000	253
21610	150
19720	175
25310	200
21665	195
23755	205
25635	185
41430	217
71020	300
74970	300
33120	170

26100	185
10685	100