Console

--> exec('C:\data\work_igre\sci-lab_routines\multiple variable linear regressin analysis k.sce', -1)

at line 40 of executed file C:\data\work_igre\sci-lab_routines\multiple variable linear analysis from book.sce

Inconsistent row/column dimensions.

--> exec('C:\data\work_igre\sci-lab_routines\multiple variable linear regressin analysis k.sce', -1)

at line 40 of executed file C:\data\work_igre\sci-lab_routines\multiple variable linear analysis from book.sce

Inconsistent row/column dimensions.

--> exec('C:\data\work_igre\sci-lab_routines\multiple variable linear regressin analysis k.sce', -1)

Warning:

matrix is close to singular or badly scaled. rcond = 8.7651E-15

Warning:

matrix is close to singular or badly scaled. rcond = 8.7651E-15

Multiple linear regression============

Table of coefficients-----

i b(i) se(b(i)) Lower Upper to H0:b(i)=0

0 -0.473501 0.505652 -1.30955 0.36255 -0.936417 do not reject

1 0.0144647 0.00859658 0.000251049 0.0286784 1.68261 reject

2 -0.00151355 0.000627177 -0.00255053 -0.000476571 -2.41328 reject

3 -7.56304e-07 1.62728e-06 -3.44686e-06 1.93425e-06 -0.464767 do not reject

4 -2.24289e-06 1.58926e-06 -4.87059e-06 3.84806e-07 -1.41128 do not reject

5 0.293853 0.122661 0.0910451 0.496662 2.39566 reject

6 0.224022 0.0677309 0.112035 0.336009 3.30753 reject

7 1.5276 0.346095 0.955362 2.09984 4.41382 reject

8 -0.124503 0.0537642 -0.213397 -0.0356082 -2.31571 reject

t_alpha/2 = 1.65341

Table of fitted values and errors

i	y(i)	yh(i) e(i)	C.I. for Y	C.I. f	or Ypred		
1	1.493	56	1.24488	0.248678	1.21412	1.27564	 1.16924	1.32052
2	1.358	83	1.22667	0.132161	1.21381	1.23953	1.15142	1.30192
3	1.192	251	1.0957	0.0968104	1.07087	1.12054	1.02023	1.17118

```
4
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              1.13295 0.113662
                                  1.11153
                                            1.15438
                                                      1.05756
                                                               1.20835
5
    1.18075
              1.07845 0.102299
                                  1.06212
                                            1.09478
                                                     1.00315
                                                               1.15375
    1.33082
              1.18662 0.144199
                                  1.17092
                                            1.20232
                                                     1.11133
6
                                                               1.26191
7
    1.20425
              1.10499 0.099265
                                  1.0824
                                           1.12757
                                                     1.02956
                                                               1.18041
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                                            1.17359
                                                      1.08492
                                                                1.23543
9
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                                  1.25402
                                            1.27911
                                                      1.19132
                                                                1.34181
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                                            1.34116
                                                      1.25432
                                                                1.40479
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                                                      1.03761
                                                                1.18826
                                             1.19933
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                                                       1.10927
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                                   1.09727
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                                  1.28864
                                            1.33277
                                                     1.23529
                                                               1.38611
                                            1.26206
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                                                      1.15679
                                                                 1.308
18
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                                             1.25086
                                                      1.15513
                                                                1.30587
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                                                       1.07496
                                                                 1.2255
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94
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                                                                   1.31809
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181
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                1.25546 -0.131902
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                                                                  1.32611
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                                    1.19671
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     0.946536
                1.23795 -0.291417
                                      1.225
                                             1.25091
                                                        1.1627
                                                                 1.3132
```

Analysis of variance									
Source of variation	on Sum of s	squares	Degrees of freedom	Mean square	F0				
Regression Residual Total	0.938265 1.0057 1.94396	8 178 186	0.117283 0.00564998	20.7581					

----With F0 = 20.7581 and F_alpha = 1.70497, reject the null hypothesis

Additional information

Standard error of estimate (se) = 0.0751664Coefficient of multiple determination (R^2) = 0.482656Multiple correlation coefficient (R) = 0.694735Adjusted coefficient of multiple determination = 0.459405

\sim			
(,)	/ariance	e matrix:	
$-\omega$	anance	z IIIaulia.	

0.2556843 -0.0004509 0.0002914 4.294D-08 -3.445D-08 -0.0603965 -0.031746 13455 0.0011766 -0.0004509 0.0000739 0.0000006 -2.489D-09 -7.689D-11 -0.0000053 -0.000017 04558 -0.0000464 00214 -0.0000077 4.294D-08 -2.489D-09 -7.846D-11 2.648D-12 -1.661D-12 -2.554D-08 -1.005D-08 4D-08 3.397D-08 -3.445D-08 -7.689D-11 -1.143D-10 -1.661D-12 2.526D-12 4.878D-09 3.463D-09 D-08 9.732D-09 -0.0603965 -0.0000053 -0.0000692 -2.554D-08 4.878D-09 0.0150456 0.007568 23756 -0.000528 -0.0317469 -0.0000173 -0.0000391 -1.005D-08 3.463D-09 0.0075687 0.004587 06539 0.0000281 -0.0113455 -0.0004558 0.0000214 -8.064D-08 1.059D-08 0.0023756 -0.000653 97817 -0.0156641 0.0011766 -0.0000464 -0.0000077 3.397D-08 9.732D-09 -0.000528 0.0000281 56641 0.0028906
