

Econometrics // Lecture 2: "Simple Linear Regression" (SLR)

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Chapter 6 Solutions to Exercises 5 6.8 (a) The result $\hat{\rho}_2 = R_2$ can be verified using your computer software. Let $s_y^2 =$ sample variance of the y $t = 2039.3$ $s_p^2 =$ sample variance of the $y!$ $t = 646.70$ $s_{yp} =$ sample covariance of y_t and $y!_t = 646.70$. Then, the squared sample correlation between y_t and $y!_t$ is given by $(\) r s s s y p R y p y p 2 2 22 2 2 64670$

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Chapter 7, Exercise Solutions, Principles of Econometrics, 3e 142 EXERCISE 7.1 (a) When a GPA is increased by one unit, and other variables are held constant, average starting salary will increase by the amount \$1643 ($t = 4.66$, and the coefficient is significant at $\alpha = 0.001$). Students who take econometrics will have a starting salary

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Chapter 2, Exercise Answers Principles of Econometrics, 4e 4 Exercise 2.3 (Continued) (d) $\hat{\beta}_1 = 0.714286$ 0.228571 -1.257143 0.257143 -1.228571 1.285714 $\hat{\beta}_0 = 0$. (e) $\hat{\beta}_0 = 0$ $\hat{\beta}_1 = 0$ $\hat{\beta}_2 = 0$ EXERCISE 2.6 (a) The intercept estimate $b_1 = 240$ is an estimate of the number of sodas sold when the temperature is 0 degrees Fahrenheit.

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Probability Primer, Exercise Solutions, Principles of Econometrics, 4e 6 EXERCISE P.5 (a) The probability that the NFC wins the 12th flip, given they have won the previous 11 flips is 0.5. Each flip is independent; so the probability of winning any flip is 0.5 irrespective of the outcomes of previous flips.

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exercise 9.11 (a) The first three autocorrelations are $r_1 = 0.4882$, $r_2 = 0.3369$, and $r_3 = 0.0916$. To test whether the autocorrelations are significantly different from zero, the null and alternative

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exercise 5.9 (a) We estimate that a 1% increase in population is

associated with a 0.02674 increase in the expected number of medals won, holding all else fixed. Solutions to Exercises in Chapter 6 Chapter 5, Exercise Solutions, Principles of Econometrics, 3e 95 Exercise 5.3 (Continued) (d) The null and alternative hypotheses are $H_0: \beta_1 = 0$; $H_1: \beta_1 \neq 0$. The calculated t-value is $t = 4.4075$ $se(\hat{\beta}_1) = 0.0054$. At a 5% significance level, we reject H_0 if $|t| > 1.96$. Since $|4.4075| > 1.96$, we reject H_0 . Solutions to Exercises in Chapter 10 Principles of Econometrics 4e Chapter 2 Solution - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Solution for Chapter 2

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Chapter 3, Exercise Solutions, Principles of Econometrics, 3e 35 Exercise 3.2 (continued) (e) The p-value of 0.0982 is given as the sum of the areas under the t-distribution to the left of -1.727 and to the right of 1.727 . We do not reject H_0 because, for $\alpha = 0.05$, p-value > 0.05 . We can reject, or fail to reject, the null hypothesis just based on an inspection of the

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Solutions Chapter 3 Chapter 7, Exercise Solutions, Principles of Econometrics, 3e 142 EXERCISE 7.1 (a) When a GPA is increased by one unit, and other variables are held constant, average starting salary will increase by the amount \$1643 ($t = 4.66$, and the coefficient is significant at $\alpha = 0.001$).

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View full document. Chapter 5, Exercise Solutions, Principles of Econometrics, 4e 143 EXERCISE 5.9 (a) The marginal effect of experience on wages is 3.42 WAGE EXPER EXPER (b) We expect 2 to be positive as workers with a higher level of education should receive higher wages. Also, we expect 3 and 4 to be positive and negative, respectively.

SOLUTIONS CHAPTER 3

Chapter 2, Exercise Answers, Principles of Econometrics, 5e 3 Copyright © 2018 Wiley (e) (f) See figure above. The fitted line passes through the point of the means, $\bar{y} = 1$, $\bar{U} = 2$. (g) $U = 2$, $y = 5 + 6\bar{y} = 2$ (h) $\hat{y} = 2$ (i) $\sigma^2 = 1.2$ (j) $R = N \cdot b(> 6|x) = 0.12$ and $O A(> 6) = 0.34641$ EXERCISE 2.3 (a) We show the least squares fitted line.

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Chapter 8, Exercise Solutions, Principles of Econometrics, 3e 180 Exercise 8.2 (continued) (c) The least squares estimators b_1 and b_2 are functions of the following averages $\bar{y} = \frac{1}{N} \sum y_i$ $\bar{x} = \frac{1}{N} \sum x_i$ $\bar{xy} = \frac{1}{N} \sum x_i y_i$ For the generalized least squares estimator for β_1 and β_2 , these unweighted averages are replaced by the weighted averages $\bar{y}_w = \frac{1}{\sum w_i} \sum w_i y_i$ $\bar{x}_w = \frac{1}{\sum w_i} \sum w_i x_i$ $\bar{xy}_w = \frac{1}{\sum w_i} \sum w_i x_i y_i$

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