ASSESMENT : 05

Q4

Model	Unstd Coeff		STD COEFF	T	Sig
	B	STD Err.	B		
Const	24.033	0.409	—	58.740	0.000
CRIM	-0.41	0.044		-9.460	0.000

$$t_{statistic} = \frac{\beta}{SE_{\beta}}$$

We need SD of Y, SD of X.

$$\beta_{cj}^{A} = \beta_{j}^{A} \frac{SD(x_j)}{SD(Y)}$$

Q5

Model 1	Un std Coeff		STANDARDIZED B	T	Sig
	B	Std Err			
Const	24.033	0.409	—	58.74	.000
CRIM	-0.41	0.044	-0.38	-9.460	.000

Var	N	MIN	MAX	Mean	SD
CRIM	506	1.26	88.98	3.61	8.60
PRICE	506	5.76	50.00	27.33	9.20

P value for CRIM

df = 506 - 1 - 1
= 504

REJ $H_0 : \beta_{CRIM} = 0$ $\alpha = 0.05$

H_a $\beta_{CRIM} \neq 0$

P value < 0.05

$\beta_{CRIM}^{standardized} = \frac{-0.41 \times 8.60}{9.20} = -0.38$

Price = $\beta_0 + \beta_1 * CRIM$