HW4

- 1) · Positive.
- 2) See attached regression results.
- 3) to with \$77 df at d=0.05 is 1.96

 All variables except "recroom" are significant
 at 5% level.
- (4) (Bz: 1% 1 (sesize =) 0.37% 1 price

 B3: I more bedroom =) 3.36% 1 price

 B4: I more bathroom =) 17.64% 1 price

 B5: 5.26% price higher w/ the room

 B6: 11.16% higher w/ full besement

 B7: 15.86% higher w/ A/C
 - Bs: 13.89% higher of in preferred area fs: I more story => 9.68% higher price
- Reasonable estimates and significant variables;

 R² is high, model performs well.

 Could come up with other variables / interaction terms.

- . use data/housing
- . gen lprice = log(price)
- . gen llotsize = log(lotsize)
- . regress lprice llotsize bedrooms bathrms recroom fullbase airco prefarea stories

Source	SS	df	MS		Number of obs F(8, 537)	= 546 = 126.51
Model Residual	49.2700678 26.1431024		.15875848)48683617		Prob > F R-squared Adj R-squared	= 0.0000 = 0.6533
Total	75.4131702	545 .:	138372789		Root MSE	= .22064
lprice	Coef.	Std. Er:	r. t	P> t	[95% Conf.	Interval]
llotsize	.3688067	.025715	7 14.34	0.000	.318291	.4193224
bedrooms	.0336246	.0148243	3 2.27	0.024	.0045038	.0627454
bathrms	.1764315	.02116	8.34	0.000	.1348571	.2180059
recroom	.052585	.027276	1.93	0.054	000997	.106167
fullbase	.1116416	.022723	5 4.91	0.000	.0670037	.1562795
airco	.1586249	.022070	7.19	0.000	.1152693	.2019805
prefarea	.1389202	.0235388	5.90	0.000	.0926807	.1851597
stories	.0968393	.013056	7.42	0.000	.0711913	.1224873
_cons	7.303587	.213869	34.15	0.000	6.883463	7.72371