



R Code for Examples in the book
"Statistics: The Art and Science of Learning from Data"
 by Agresti, Franklin and Klingenberg, 5th edition

Chapter 13

Example 10: House Selling Price – Indicator Variables

Reading in data

```
data <-  
read.csv(file='https://raw.githubusercontent.com/artofstat/data/master/Chapter13/house_selling_prices_or.csv')
```

Fitting in multiple regression model

```
lin.reg <- lm(House.Price..USD.~ House.Size + Condition, data = data)  
summary(lin.reg)  
  
##  
## Call:  
## lm(formula = House.Price..USD. ~ House.Size + Condition, data = data)  
##  
## Residuals:  
##      Min       1Q   Median       3Q      Max   
## -312024  -33585    -852    28105   382876   
##  
## Coefficients:  
##              Estimate Std. Error t value Pr(>|t|)      
## (Intercept)  96270.971  13464.912    7.150 1.66e-11 ***  
## House.Size    66.463     4.682   14.196 < 2e-16 ***  
## Condition   12926.940  17196.712    0.752  0.453      
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 81790 on 197 degrees of freedom  
## Multiple R-squared:  0.5062, Adjusted R-squared:  0.5012   
## F-statistic: 101 on 2 and 197 DF,  p-value: < 2.2e-16
```