Example 5-9

September 12, 2020

```
[]: # install the following package and libraries
    install.packages("plm")
    library("plm")
    library("lmtest")
    library("sandwich")
[2]: | ##------Block 1--------
    #### Example 5-9 ####
    data("Grunfeld", package = "plm")
    # default Hausman test
    phtest(inv ~ value + capital, data = Grunfeld)
   Hausman Test
   data: inv ~ value + capital
   chisq = 2.3304, df = 2, p-value = 0.3119
   alternative hypothesis: one model is inconsistent
[3]: | ##-----Block 2-----Block 2-----
    # Hausman test through the auxillary regression
    phtest(inv ~ value + capital, data = Grunfeld, method = "aux")
   Regression-based Hausman test
   data: inv ~ value + capital
   chisq = 2.1314, df = 2, p-value = 0.3445
   alternative hypothesis: one model is inconsistent
```