Example 5-7

September 12, 2020

```
[]: # install the following package and libraries
   install.packages("plm")
   library("plm")
   library("lmtest")
   library("sandwich")
   # import the data, create the following formula, and run the pooled OLS model
   data("Produc", package = "plm")
   fm \leftarrow log(gsp) \sim log(pcap) + log(pc) + log(emp) + unemp
   plmmod <- plm(fm, Produc, model = "pooling")</pre>
[2]: | ##-----Block 1-------
   #### Example 5-7 ####
    # coeftest allows for passing the vcov parameter either as a
    # matrix or as a fuction (as done in the previous examples)
   # vcov parameter as a matrix
   coeftest(plmmod, vcov = vcovHC(plmmod, type = "HC3"))
   t test of coefficients:
             Estimate Std. Error t value Pr(>|t|)
   (Intercept) 1.643302 0.247058 6.6515 5.332e-11 ***
             log(pcap)
   log(pc)
             log(emp)
   unemp
            Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1