Example 8-6

September 11, 2020

```
[]: # install the following packages and library
    install.packages("pder")
    install.packages("plm")
    library("plm")
    # import data
    data("HousePricesUS", package = "pder")
[2]: | ##-----Block 1------
    #### Example 8-6 ####
    # common correlated effects mean groups model
    ccemgmod <- pcce(log(price) ~ log(income), data=HousePricesUS, model="mg")</pre>
    summary(ccemgmod)
    Common Correlated Effects Mean Groups model
    pcce(formula = log(price) ~ log(income), data = HousePricesUS,
       model = "mg")
    Balanced Panel: n = 49, T = 29, N = 1421
    Residuals:
         Min.
                1st Qu.
                           Median
                                        Mean
                                               3rd Qu.
    -0.2374376 -0.0354899 0.0002718 0.0000000 0.0363912 0.2242333
    Coefficients:
              Estimate Std. Error z-value Pr(>|z|)
    log(income) 1.13540 0.19546 5.809 6.285e-09 ***
    Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Total Sum of Squares: 47.234 Residual Sum of Squares: 5.6567

HPY R-squared: 0.74027

```
[3]: | ##-----Block 2-----Block 2-----
    # common correlated effects pooled model
    ccepmod <- pcce(log(price) ~ log(income), data=HousePricesUS, model="p")</pre>
    summary(ccepmod)
    Common Correlated Effects Pooled model
    Call:
    pcce(formula = log(price) ~ log(income), data = HousePricesUS,
       model = "p")
    Balanced Panel: n = 49, T = 29, N = 1421
    Residuals:
                                     Mean
        Min.
               1st Qu.
                         Median
                                           3rd Qu.
                                                        Max.
    -0.278833 -0.039281 -0.002089 0.000000 0.039268 0.299930
    Coefficients:
               Estimate Std. Error z-value Pr(>|z|)
    log(income) 1.19941
                          0.20728 5.7864 7.193e-09 ***
    Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
    Total Sum of Squares: 47.234
    Residual Sum of Squares: 6.8851
    HPY R-squared: 0.69579
```