```
------------------------------------------------------------------------------
      name:  <unnamed>
       log:  G:\ECON422 India Poverty Reduction Final Project Household Analysis
> .log
  log type:  text
 opened on:   9 Dec 2025, 15:48:30

. 
. * refreshing STATA
. clear all

. set more off

. 
. * Google Drive connection to data
. use "G:\pooled_hh.dta"
(Household Table)

. 
. * summarize data set
. * describe
. 
. * summarizing treatment and country variables
. summarize treatment

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
   treatment |     10,508     .370099    .4828539          0          1

. summarize country

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
     country |     10,508    3.569566     1.67958          1          6

. 
. * identify proportion of India that received intervention
. summarize treatment if country == 4

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
   treatment |        991    .5257316    .4995896          0          1

. 
. * subset data set to just India
. keep if country == 4
(9,517 observations deleted)

. 
. * create variable for total monthly income baseline
. gen total_baseline_income = (iagri_month_bsl + ibusiness_month_bsl + ipaidlabo
> r_month_bsl)

. 
. * summary statistics and random assignment check for total monthly income base
> line
. summarize total_baseline_income

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
total_base~e |        991   -.4303773    77.39204  -404.3635   2037.649
```

```
. ttest total_baseline_income, by(treatment)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
 Control |     470   -4.643035    1.511854     32.7762    -7.61388    -1.67219
Treatmen |     521    3.369909    4.468639    101.9986   -5.408896    12.14871
---------+--------------------------------------------------------------------
Combined |     991   -.4303773    2.458439    77.39204   -5.254728    4.393973
---------+--------------------------------------------------------------------
    diff |           -8.012944    4.919297               -17.6664    1.640514
------------------------------------------------------------------------------
    diff = mean(Control) - mean(Treatmen)                         t =  -1.6289
H0: diff = 0                                     Degrees of freedom =      989

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0518         Pr(|T| > |t|) = 0.1037          Pr(T > t) = 0.9482

.
. * summary statistics and random assignment check for total asset index
. summarize asset_index_bsl

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
asset_inde~l |        991    .0386588    1.080933   -.393121   6.949668

. ttest asset_index_bsl, by(treatment)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
 Control |     470    2.24e-09    .0459294    .9957265   -.0902529     .090253
Treatmen |     521    .0735333     .050481    1.152251   -.0256385    .1727052
---------+--------------------------------------------------------------------
Combined |     991    .0386588     .034337    1.080933   -.0287228    .1060404
---------+--------------------------------------------------------------------
    diff |           -.0735333      .06876               -.2084657     .061399
------------------------------------------------------------------------------
    diff = mean(Control) - mean(Treatmen)                         t =  -1.0694
H0: diff = 0                                     Degrees of freedom =      989

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1426         Pr(|T| > |t|) = 0.2851          Pr(T > t) = 0.8574

.
. * summary statistics and random assignment check for total asset index of the
> household
. summarize asset_hh_index_bsl

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
asset_hh_i~l |        991   -.0295128    .8775142  -.2682655   7.323722

. ttest asset_hh_index_bsl, by(treatment)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
 Control |     470   -6.06e-10    .0458306    .9935828   -.0900587    .0900586
Treatmen |     521   -.0561367    .0331963    .7577195    -.121352    .0090787
---------+--------------------------------------------------------------------
Combined |     991   -.0295128    .0278752    .8775142    -.084214    .0251884
---------+--------------------------------------------------------------------
    diff |            .0561367     .055824               -.0534104    .1656837
------------------------------------------------------------------------------
    diff = mean(Control) - mean(Treatmen)                         t =   1.0056
H0: diff = 0                                     Degrees of freedom =      989
```

```
    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.8426         Pr(|T| > |t|) = 0.3149          Pr(T > t) = 0.1574

.
. * summary statistics and random assignment check for total monthly spending pe
> r capita
. summarize ctotal_pcmonth_bsl

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
ctotal_pcm~l |        991    39.35705    24.01336          0    352.528

. ttest ctotal_pcmonth_bsl, by(treatment)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
 Control |     470    39.68945    1.222099    26.49448    37.28798    42.09092
Treatmen |     521    39.05719    .9442577    21.55308    37.20216    40.91222
---------+--------------------------------------------------------------------
Combined |     991    39.35705    .7628096    24.01336    37.86014    40.85396
---------+--------------------------------------------------------------------
    diff |            .6322583    1.528283               -2.366792    3.631309
------------------------------------------------------------------------------
    diff = mean(Control) - mean(Treatmen)                         t =   0.4137
H0: diff = 0                                     Degrees of freedom =      989

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.6604         Pr(|T| > |t|) = 0.6792          Pr(T > t) = 0.3396

.
. * summary statistics and random assignment check for food security index
. summarize index_foodsecurity_bsl

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
index_food~l |        978   -.0301191    1.002177  -1.409681   2.792773

. ttest index_foodsecurity_bsl, by(treatment)

Two-sample t test with equal variances
------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
 Control |     466    1.43e-09    .0463241           1   -.0910305    .0910305
Treatmen |     512   -.0575322    .0443862    1.004346   -.1447342    .0296698
---------+--------------------------------------------------------------------
Combined |     978   -.0301191    .0320461    1.002177   -.0930062     .032768
---------+--------------------------------------------------------------------
    diff |            .0575322    .0641696               -.0683941    .1834585
------------------------------------------------------------------------------
    diff = mean(Control) - mean(Treatmen)                         t =   0.8966
H0: diff = 0                                     Degrees of freedom =      976

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.8149         Pr(|T| > |t|) = 0.3702          Pr(T > t) = 0.1851

.
. * create variables for total monthly income: endline-1 and endline-2
```

```
. gen total_end1_income = (iagri_month_end + ibusiness_month_end + ipaidlabor_mo
> nth_end)
(193 missing values generated)

. gen total_end2_income = (iagri_month_fup + ibusiness_month_fup + ipaidlabor_mo
> nth_fup)
(114 missing values generated)

.
. * create regressions for total income
. regress total_end1_income treatment total_baseline_income, r

Linear regression                               Number of obs     =        798
                                                F(2, 795)         =       3.98
                                                Prob > F          =     0.0190
                                                R-squared         =     0.0081
                                                Root MSE          =       89.6

------------------------------------------------------------------------------
> -
                     |               Robust
    total_end1_income | Coefficient  std. err.      t    P>|t|     [95% conf. interval
> ]
---------------------+--------------------------------------------------------
> -
           treatment |   14.51746   6.360878     2.28   0.023     2.031356    27.0035
> 6
total_baseline_income |  -.0466309   .0224146    -2.08   0.038    -.0906297   -.002632
> 1
               _cons |   81.87546   4.412236    18.56   0.000     73.21445    90.5364
> 7
------------------------------------------------------------------------------
> -

. regress total_end2_income treatment total_baseline_income, r

Linear regression                               Number of obs     =        877
                                                F(2, 874)         =       7.26
                                                Prob > F          =     0.0007
                                                R-squared         =     0.0152
                                                Root MSE          =     97.542

------------------------------------------------------------------------------
> -
                     |               Robust
    total_end2_income | Coefficient  std. err.      t    P>|t|     [95% conf. interval
> ]
---------------------+--------------------------------------------------------
> -
           treatment |   23.58549   6.452544     3.66   0.000      10.9212    36.2497
> 8
total_baseline_income |  -.0428516   .0421154    -1.02   0.309    -.1255108    .039807
> 7
               _cons |   42.25428   3.952404    10.69   0.000     34.49696    50.0115
> 9
------------------------------------------------------------------------------
> -

.
. * create regressions for total monthly spending per capita
```

```
. regress ctotal_pcmonth_end treatment ctotal_pcmonth_bsl, r

Linear regression                               Number of obs     =        816
                                                F(2, 813)         =      16.99
                                                Prob > F          =     0.0000
                                                R-squared         =     0.1224
                                                Root MSE          =     24.177

------------------------------------------------------------------------------
                   |               Robust
ctotal_pcmonth_end | Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------------+----------------------------------------------------------------
         treatment |   6.787537   1.676809     4.05   0.000     3.496152    10.07892
ctotal_pcmonth_bsl |   .3379765    .078121     4.33   0.000     .1846339    .4913191
             _cons |   34.19076   3.041009    11.24   0.000     28.22161    40.15992
------------------------------------------------------------------------------

. regress ctotal_pcmonth_fup treatment ctotal_pcmonth_bsl, r

Linear regression                               Number of obs     =        879
                                                F(2, 876)         =      10.06
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0732
                                                Root MSE          =     27.051

------------------------------------------------------------------------------
                   |               Robust
ctotal_pcmonth_fup | Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------------+----------------------------------------------------------------
         treatment |   5.248366   1.827782     2.87   0.004     1.661022     8.83571
ctotal_pcmonth_bsl |   .2908375   .0822155     3.54   0.000     .1294752    .4521998
             _cons |   45.88287   3.306709    13.88   0.000     39.39287    52.37287
------------------------------------------------------------------------------

.
. * create regressions for total asset index
. regress asset_index_end treatment asset_index_bsl, r

Linear regression                               Number of obs     =        817
                                                F(2, 814)         =      38.96
                                                Prob > F          =     0.0000
                                                R-squared         =     0.1059
                                                Root MSE          =     1.2561

------------------------------------------------------------------------------
                 |               Robust
asset_index_end | Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-----------------+----------------------------------------------------------------
       treatment |   .6700028   .0865307     7.74   0.000     .5001532    .8398525
asset_index_bsl |   .2420357   .0602922     4.01   0.000     .1236892    .3603821
           _cons |  -.0011396   .0514969    -0.02   0.982    -.1022219    .0999428
------------------------------------------------------------------------------

. regress asset_index_fup treatment asset_index_bsl, r

Linear regression                               Number of obs     =        879
                                                F(2, 876)         =      50.22
                                                Prob > F          =     0.0000
                                                R-squared         =     0.1328
                                                Root MSE          =      1.418

------------------------------------------------------------------------------
                 |               Robust
asset_index_fup | Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-----------------+----------------------------------------------------------------
       treatment |   .7189964   .0928291     7.75   0.000      .536803    .9011899
asset_index_bsl |   .3746625   .0651089     5.75   0.000     .2468748    .5024502
           _cons |  -.0052013   .0467996    -0.11   0.912    -.0970538    .0866513
------------------------------------------------------------------------------
```

```
.
. * translating log file to pdf
. log close
      name:  <unnamed>
       log:  G:\ECON422 India Poverty Reduction Final Project Household Analysis.log
  log type:  text
 closed on:   9 Dec 2025, 15:48:54
-------------------------------------------------------------------------------------------
> --------------------------------------------------
```