```
log using D:\acs\ACS.log, replace


*****************************************

* Link Household Data with Person Data

*****************************************

* Household data from the State of Ohio in 2018 ACS

use "D:\acs\2018\Ohio\2018\psam_h39.dta" , clear

des

des serialno

sort serialno

save "D:\acs\2018\Ohio\2018\psam_h39_2.dta" , replace



* Persondata from the State of Ohio in 2018 ACS

use "D:\acs\2018\Ohio\2018\psam_p39.dta" , clear

des

des serialno

sort serialno

save, replace


* Merge these two files

use "D:\acs\2018\Ohio\2018\psam_h39.dta" , clear

merge 1:m serialno using "D:\acs\2018\Ohio\2018\psam_h39.dta"

drop _merge

save "D:\acs\2018\Ohio\2018\ACS_Ohio_2018.dta", replace




*******************************************

* Stack data over two years
```

```
*****************************************
* Persondata from the State of Ohio in 2017 ACS
use "D:\acs\2018\Ohio\2017\psam_p39.dta" , clear
gen year = 2017
save "D:\acs\2018\Ohio\2017\psam_p39_2.dta", replace


* Persondata from the State of Ohio in 2018 ACS
use "D:\acs\2018\Ohio\2018\psam_p39.dta" , clear
gen year = 2018
save "D:\acs\2018\Ohio\2018\psam_p39_2.dta", replace


* append data together
use "D:\acs\2018\Ohio\2017\psam_p39_2.dta", clear
append using "D:\acs\2018\Ohio\2018\psam_p39_2.dta"
save "D:\acs\ACS_Ohio_2015_2018.dta", replace



*******************************
* Using Person Weights
*******************************
use "D:\acs\2018\Ohio\2018\psam_p39.dta" , clear
tab1 agep, mis
egen agegroup = cut(agep), at(0,15, 31,46,61,76,101)
label define agegroup 0 "0-14" 15 "15-30" 31 "31-45" 46 "46-60" 61 "61-75" 76 "76-100"
label value agegroup agegroup
des mardestring mar, replace
label define mar 1 "Married" 2 "Widowed" 3 "Divorced" 4 "Separated" 5 "Never married or under 15
label value mar mar
```

```
svyset [pweight=pwgtp]

svy: tab agegroup msp

save "D:\acs\2018\Ohio\2018\psam_p39_3.dta", replace




***************************************************

* Using household weights

***************************************************

use "D:\acs\2018\Ohio\2018\psam_h39.dta",clear

des type

destring type, replace

label define type 1 "Housing unit" 2 "Institutional group quarters" 3 "Noninstitutional group qu

label value type type

des access

destring access, replace

replace access =0 if access ==.

label define access 0 "NA (GQ)" 1 "Yes, by paying a cell phone company or Internet service prov

2 "Yes, without paying a cell phone company or Internet service provider "

3 "No access to the Internet at this house, apartment,or mobile home"

label value access access

*incorrect analysis

tab1 type access, mis

*correct analysis

svyset [pweight=hwgtp]

svy: tab type access
```

****

* Using Replicate weights

****

use "D:\acs\2018\Ohio\2018\psam_p39.dta" , clear

destring mar, replace

svyset[pweight=pwgtp], vce(brr) brrweight(PWGTP1-PWGTP80) fay(.5)mse

svy: mlogit mar agep

log close