```
***************************
* Family Relation
***************************
log using "F:\workshop\long format\family_relation_05_21_18.log", replace


****************
* Describe data
****************
use "F:\workshop\long format\family.dta", clear
des
list, sepby(fam_id)


**************
* Sort data
**************

sort fam_id pernum

**********************************************************
* Check whether each record is a unique one
**********************************************************

duplicates report fam_id pernum


*************************************************************************
* Create an indicator variable for each family member
*************************************************************************
by fam_id: gen person_id = _n
label variable person "indicator for each family member"

*************************************************************************
*Calculate the size of family
*************************************************************************
by fam_id: gen size = _N
label variable size "family size"


list, sepby(fam_id) nol


**********************************
* indicator of how many children householders had in the family
**********************************

by fam_id: gen     kid = 1          if relate ==301 & age < 18
label variable kid "householders have a kid at home"

by fam_id: egen s_kid = sum(kid)
label variable s_kid "the total number of children householders have at home"

list fam_id pernum relate age kid s_kid , sepby(fam_id) nol


****************************************************
* Remove unnecessary information from the data file
****************************************************
by fam_id: replace s_kid =. if relate ~=101

list fam_id pernum relate age kid s_kid , sepby(fam_id) nol


****************************************************
* What is the gender of the spouse for the householders
****************************************************

by fam_id: gen     s_sex_temp= sex    if relate ==201
label variable s_sex_temp "sex of the spouse, temporary variable"
```

```
by fam_id: egen s_sex = max(s_sex_temp)
label variable s_sex "sex of the spouse"

list fam_id pernum relate sex s_sex_temp s_sex , sepby(fam_id) nol

*****************************************************
* Remove unnecessary information from the data file
*****************************************************
by fam_id: replace s_sex =. if relate ~=101

list fam_id pernum relate sex s_sex_temp s_sex , sepby(fam_id) nol


log close
```