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// Program: 04-dataPrep-income-transfersAndPensions.do
// Task: cleans hh-level private/govt transfers and
                cleans hh-level private/govt transfers and pension incomes using Ken
> yan survey data (2015/16 KIHBS)
// Project: Kenya Fical MicroSim
// Author: Yared Seid - 2023Jan
                Yared Seid - 2023Jan15
// #1
// Loading the data
use "${dataSources}\Kenya 2015 16 KIHBS\HH Information", clear
// #2
// Generating vars
* IDs
codebook county clid hhid
qui tostring clid,
                        gen(clusterID) format(%04.0f)
                                                                             // cluster i
                                                                              // houdehold
qui tostring hhid,
                      gen(hhid STR) format(%02.0f)
> id, within county and cluster
label var clusterID "Cluster ID"
gen hhID = clusterID + hhid STR
label var hhID "Household I\overline{D}"
isid hhID
// TRANSFERS
des o*
clonevar any_transfer = o01
label var any_transfer "=1 if any transfer"
tab any_transfer
// Transfer recieved in cash
* private transfer
egen priv trans cash = rowtotal(002 a 002 g 002 b 002 e), missing
      //\overline{a}= from ind transfer (within Kenya transfer), g= from outside Kenya transfe
> r AND b= from non-profit institution, e= from corporate sector (both b&e are from
> within Kenya transfer) // annual
label var priv trans cash "Private transfer in cash"
* government transfer
egen govt_trans_cash = rowtotal(002 c 002 d), missing
                                                                            // c= nation
> al govt and d= county govt // annual
label var govt trans cash "Government transfer in cash"
des priv_trans_cash govt_trans_cash
sum priv trans cash govt trans cash
// Transfer recieved in kind
* private transfer
egen priv trans kind = rowtotal(o10 a o10 e o02 b o02 d), missing
     // a= from ind transfer (within Kenya transfer), e= from outside Kenya transfe
> r AND b= from non-profit institution, d= from corporate sector (both b&d are from
> within Kenya transfer)
                             // annual
label var priv trans kind "Private transfer in kind"
* government transfer
egen govt trans kind = rowtotal(o10 c), missing
                                                                    // c= govt // annu
label var govt trans kind "Government transfer in kind"
```

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des priv trans kind govt trans kind
sum priv trans kind govt trans kind
// Total transfers (in cash + in kind) by govt and private transfer
egen priv trans = rowtotal(priv trans cash priv trans kind), missing
label var priv trans "Private transfer: cash + in kind"
egen govt_trans = rowtotal(govt_trans_cash govt_trans_kind), missing
label var govt_trans "Government transfer: cash + in kind"
local transferVars priv trans cash priv trans kind priv trans ///
        govt trans cash govt trans kind govt trans
des `transferVars'
sum `transferVars'
************************
/* Final touch of key variables - order matters! First annualize, then cap upper out
> liers */
local finalTouchVars priv trans cash priv trans kind priv trans ///
        govt trans cash govt trans kind govt trans
sum `finalTouchVars'
foreach z of local finalTouchVars {
ys annualizing values `z', recall in days()
                                                     // values are reported annua
> Tly in the original data
sum `finalTouchVars'
                    `finalTouchVars'
ys_upper_outliers
> 7 setting upper outliers to MEAN+3SD sum `finalTouchVars'
        /* Graph it */
       foreach z of local finalTouchVars{
        sum `z'
        local `z' Mean = round(`r(mean)')
       histogram `z', fraction normal ti("`z' - Annual (Mean = ``z' Mean')") xline
> (``z' Mean')
******************
// OTHER INCOMES
des p*
* capital income
clonevar cap_income_d = p02
> // capītal income dummy
tab cap_income_d
gen cap inc = p03
> /7 annual
label var cap inc "Capital income"
* pensions income
clonevar pension d = p04
  // dummy for any pension income
```

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gen lab pens d = [(p05 1 == "A") | (p05 1 == "B") | (p05 1 == "C")] & !missing(p05 1)
> // dummy for labor pension: A=CIVIL SERVANTS PENSION PLAN, B=PRIVATE PENSION,
> C=PERSONAL PENSION PLAN
gen oth pens d = (p05 1 == "X") & !missing(p05 1)
                                                                 // dummy for other p
> ension
                                                                                 // m
gen lab pens = p06 if lab pens d==1
> onthly
label var lab pens "Pension income: from labor"
gen oth pens = p06 if oth pens d==1
                                                                            // monthl
> y
label var oth pens "Pension income: other"
* renal income
clonevar rent inc d = p07
     // dummy for rental income
egen rent_inc = rowtotal(p08_re p08_co p08_la p08_ma p08_su p08_ot), missing // fro > m residential, commercial, land, machinery, sub soil assets, and others // monthl
> v
labe var rent inc "Rental income"
* other income - regural
                                                                                 // d
clonevar other_inc_reg_d = p09
> ummy for other regural income
egen other_inc_reg = rowtotal(p10_1 p10_2), missing
> t specified // monthly
                                                                 // items 1 and 2 no
label var other inc reg "Other income - regural"
* other income - irregural
clonevar other inc irreg d = p11
        // dummy for other irregural income
egen other_inc_irreg = rowtotal(p12_1 p12_2 p12_3), missing // items 1 and 2 not sp \geq ecified // annual
label var other inc irreg "Other income - irregural"
******************
                * Final touch
************************
/* Assigning hh-lvel incomes (such as capital, pension, rental, other income etc to
> individual hh members depending on different criteria) */
/* Importing household size */
merge 1:1 hhID using "${DataCleaningPath}\01-dataPrep-hhDemogVars", keepusing(hh siz
> e)
drop merge
merge 1:m hhID using "${DataCleaningPath}\02-dataPrep-hhMemberDemogVars", keepusing(
> memberID age) // importing memberID
drop merge
* 1. Capital income: assignment to hh member is achieved by dividing it to hh size
rename cap inc hh cap inc
gen cap inc = hh cap inc/hh size
drop hh cap inc
```

```
local finalTouchVars lab pens oth pens rent inc cap inc other inc
sum `finalTouchVars'
ys upper outliers
                            `finalTouchVars'
> 7 setting upper outliers to MEAN+3SD
sum `finalTouchVars'
       /* Graph it */
       foreach z of local finalTouchVars{
       qui sum `z'
       local `z' Mean = round(`r(mean)')
       histogram z', fraction normal ti("z' - Annual (Mean = `z' Mean')") xline
> (``z'_Mean')
********
*******************
local otherIncomeVars cap inc lab pens oth pens rent inc other inc // other inc reg
> other inc irreg
local keepVars `transferVars' `otherIncomeVars'
des `otherIncomeVars', full
sum `otherIncomeVars'
// #3
// Saving the data
local keepVars county clid clusterID hhID memberID `transferVars' `otherIncomeVars'
/* To assign Yes/No value lable to dummy variables */
local yesnoVars
order `keepVars'
keep `keepVars'
sort hhID
codebook hhID
* saving details
                      04-dataPrep-otherIncomes-transfersAndPensions
local dta name
                     "Income: transfers and pensions"
local dta note
include "${DataCleaningPath}\i-dta-savingDetails.do" // saving the data with addi
> tional info on notes, labels, etc
*******
*******************
// #4
// Post-data-saving checking
^{\prime \star} Checking for the hh size (we count only those who are present) ^{\star \prime}
bysort hhID: egen double hh size test = count(memberID)
       assert hh size == h\overline{h} \operatorname{size} \operatorname{test} // \operatorname{if} \operatorname{!mi}(\operatorname{ind weight})
order hhID memberID hh size hh size test
*******************
```