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a*Ekonometrija - vezbe
** Vezbe I
*****
* setting memory in STATA. Radna memorija STATA se postavlja
** pre rada sa podacima.
set mem 50m

* setting working directory. Lokacija naseg rada u folderima.
cd"C:\Documents and Settings\Administrator\Desktop\Ekonometrija\Dragana"

*****
display "Hello World"

display 2*3+1

display 5>0

display 5<0

* Creating data

set obs 500
gen var1=uniform()
gen var2= 2*var1 + 3

** to delete variables we use drop
drop var2

** to help with commands we use "help"
help hist
kdensity var1

** ilustracija variabli
hist var1

*** note: check if illustration works with bigger memory!

* changing variable name / promena naziva variabli
rename var1 prva
rename var2 druga

* some summary stats / osnovni opisi podataka
sum prva druga
sum prva druga, detail

* correlation between variables / korelacija izmedju variabli
corr prva druga

**** note: perfect correlation between independent variables is a bad signal.

describe prva
label var prva "Prva variabla"
*****

** Ex. Session 2

*** STATA keeps output in Log files.

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set obs 500
gen var1 = uniform()
gen var2 = 3*var1+3

sum var1 var2

*** importing data in STATA
insheet using "C:\Documents and
Settings\Administrator\Desktop\Ekonometrija\data.csv"

*** labeling variables in survey data

label var educat "Education level"
label var totwage "Wage per week"
label var exper "Experience"
label var marst "Marital Status"
label var age "Age"

* introduction to data / summary
sum totwage educat exper marst age

** introduction to data a bit more...
sum totwage educat exper marst age, detail

*** knowing data even a bit more!
tab marst
tab marst sex
tab totwage sex
** we can not do tabs for too many observations - usually we can do tabs with
categories.

* GRAPHS *
*** for now we do them in Excel!
****note: we use scatter plots for data description

*** 1. wage and education
tway scatter totwage educat

*** 2. wage and experience
tway scatter totwage exper

*** 3. wage and gender
tway scatter totwage sex

*** 4. wage and marital status
tway scatter totwage marst

*** 5. experience and age
tway scatter exper age
corr exper age
**** perfect correlation between independant variables! Collinearity problem!

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