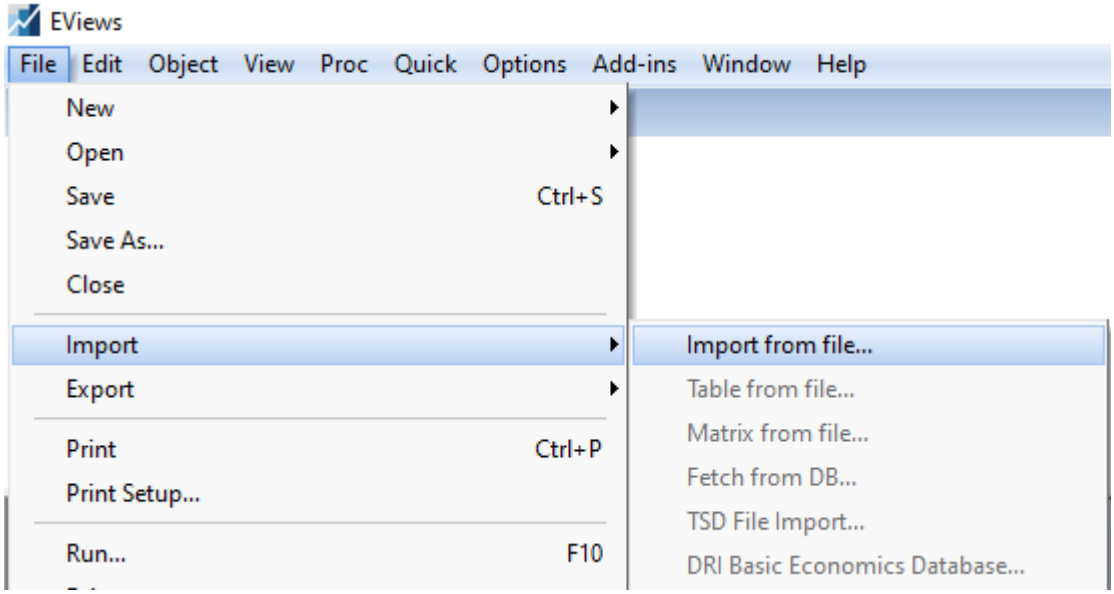
# Multiple Regression

Multiple regression analysis in EViews allows you to analyze the relationship between a dependent variable and multiple independent variables. Here's a general guide on how to perform multiple regression analysis in EViews:

1- **Data Input**: We upload the filework (in our example Wage1.xls)

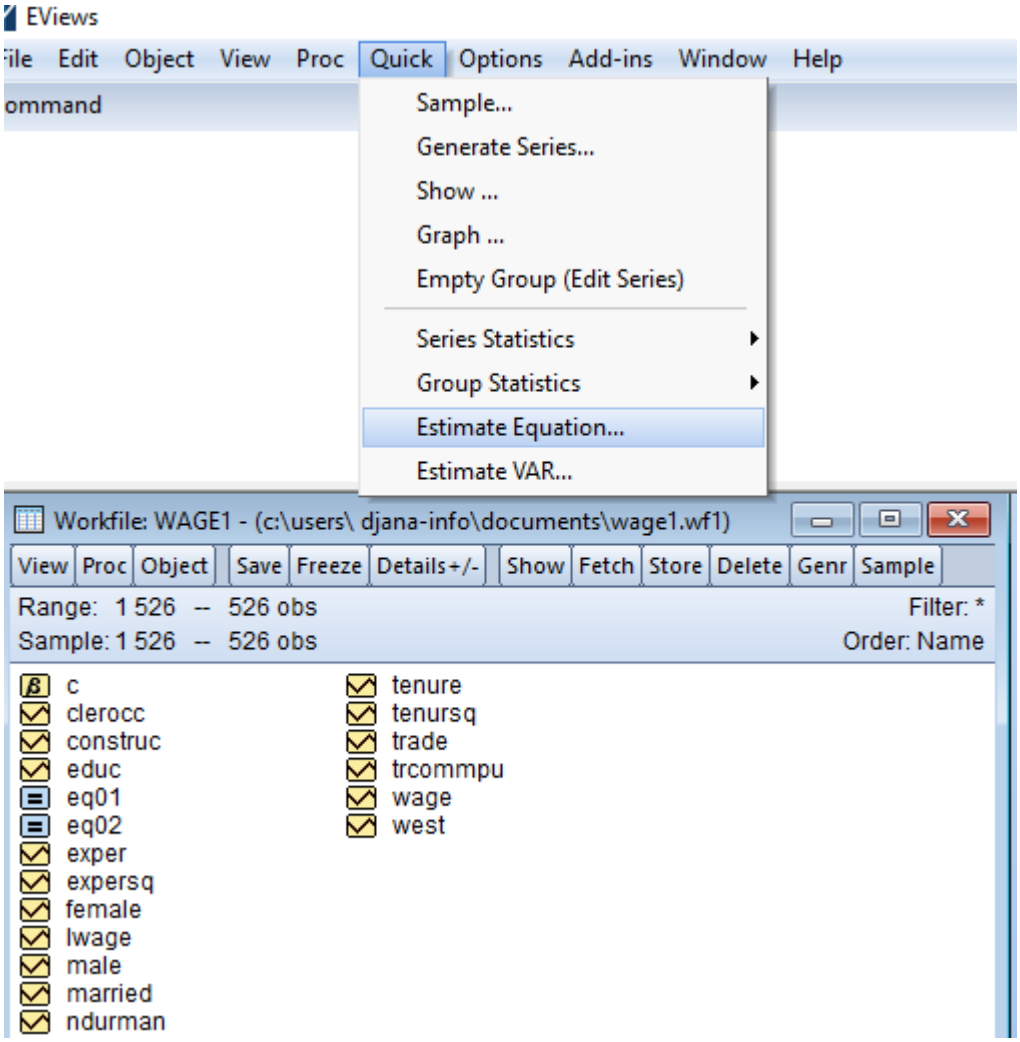


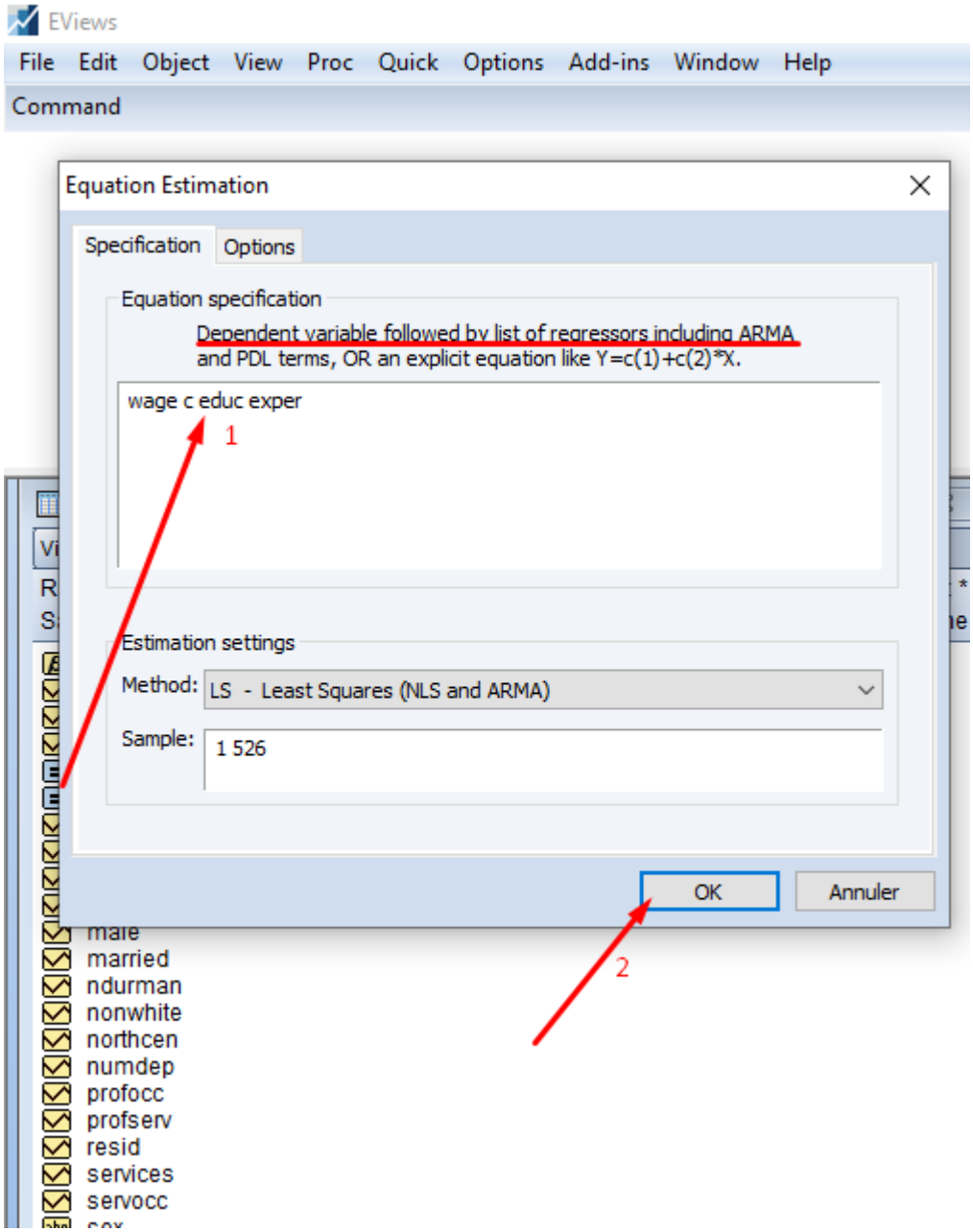

2- **Open Regression Dialog Box:**

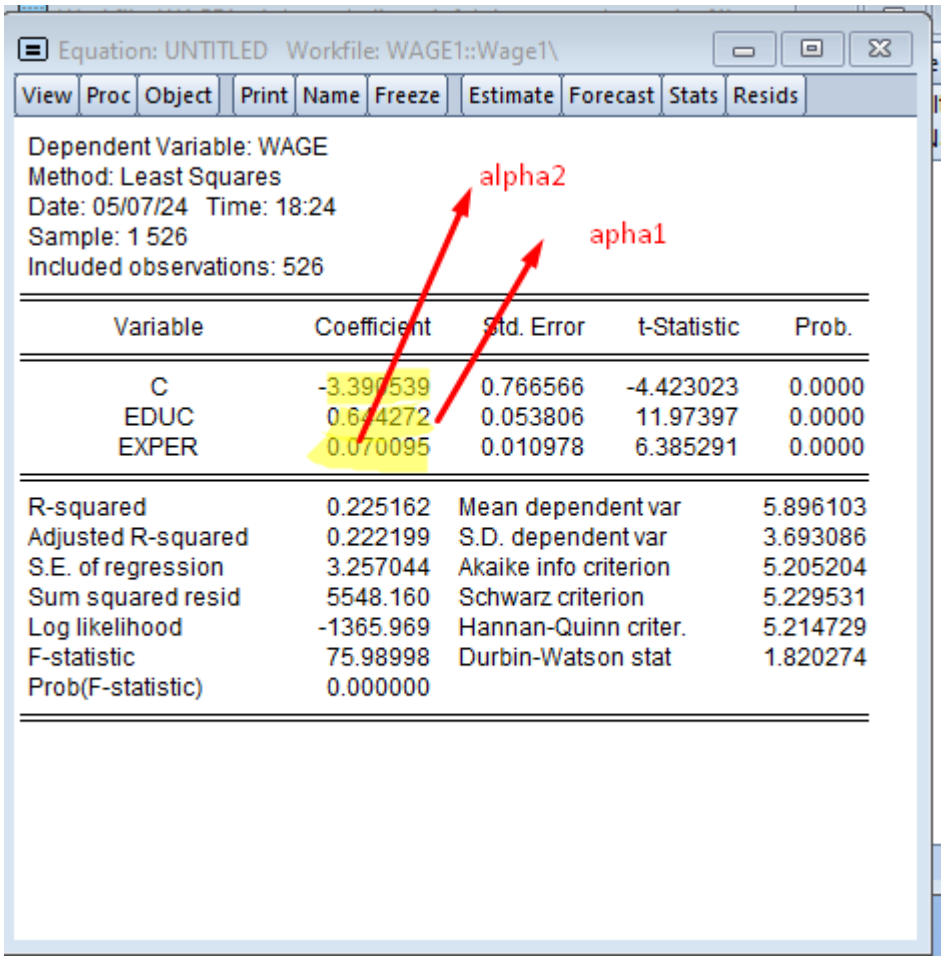
Go to the "Quick" menu and select "Estimate Equation." Alternatively, you can click on the "Proc" menu and choose "Estimate Equation." This will open the regression dialog box

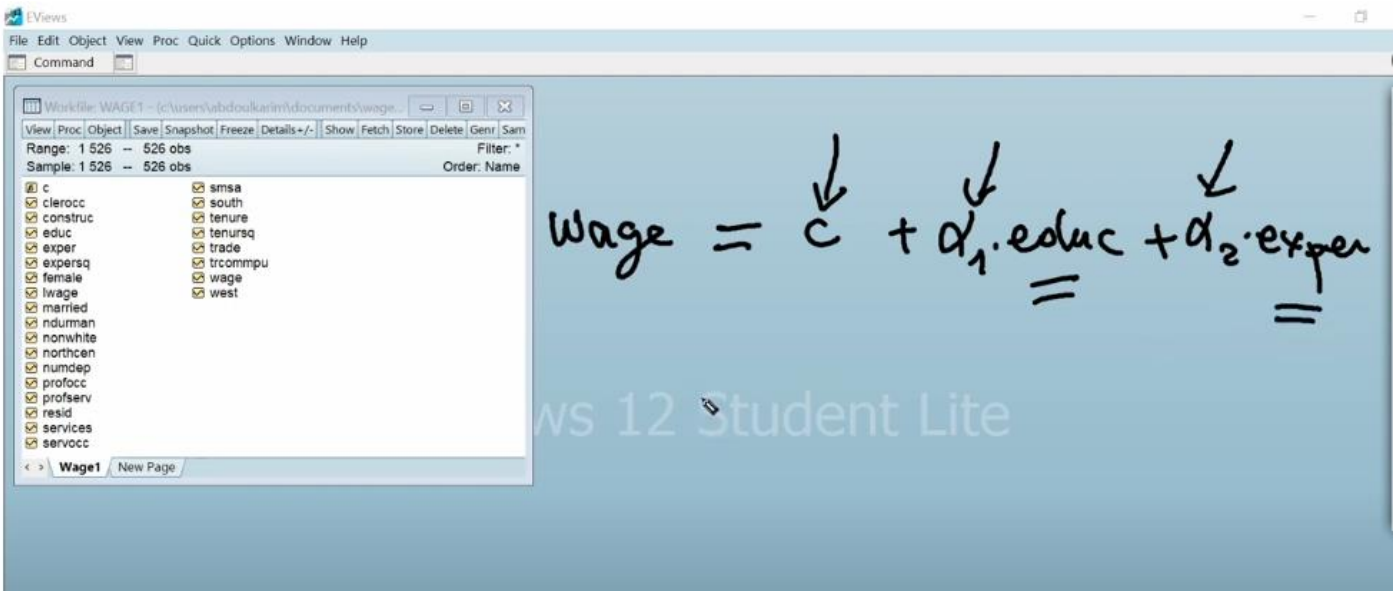
3- **Select Dependent and Independent Variables:**

In the regression dialog box, you'll see two main sections: "Specification" and "Estimation." In the "Specification" section, select your dependent variable from the list. Then, click on the arrow button to move it to the "Dependent" box. Next, select your independent variables from the list and move them to the "Independent" box


EViews
File Edit Object View Proc Quick Options Add-ins Window Help
Command
Sample...
Generate Series...
Show ...
Graph ...
Empty Group (Edit Series)
Series Statistics
Group Statistics
Estimate Equation...
Estimate VAR...
Workfile: WAGE1 - (c:\users\ djana-info\documents\wage1.wf1)
View Proc Object Save Freeze Details+/- Show Fetch Store Delete Genr Sample
Range: 1 526 -- 526 obs
Filter: *
Sample: 1 526 -- 526 obs
Order: Name
c
clerocc
construc
educ
eq01
eq02
exper
expersq
female
lwage
male
married
ndurman
tenure
tenursq
trade
trcommpu
wage
west


EViews
File Edit Object View Proc Quick Options Add-ins Window Help
Command
Equation Estimation
Specification
Options
Equation specification
Dependent variable followed by list of regressors including ARMA
and PDL terms, OR an explicit equation like Y=c(1)+c(2)*X.
wage c educ exper
1
Estimation settings
Method: LS - Least Squares (NLS and ARMA)
Sample: 1 526
OK
Annuler
2
male
married
ndurman
nonwhite
northcen
numdep
profocc
profserv
resid
services
servocc




### 4- **Interpreting the results**

The output window will display the regression results, including coefficients, standard errors, t-statistics, p-values, and goodness-of-fit measures such as R-squared. Interpret the coefficients to understand the relationship between the dependent variable and independent variables. Pay attention to the significance of the coefficients and the overall fit of the model.