과제 2

1. The data set 401KSUBS.xls contains information on net financial wealth (*nettfa*), age of the survey respondent, annual family income (*inc*), family size (*fsize*), and information on participation in certain pension plans for people in the United States. The wealth and income variables are both recorded in thousands of dollars. For this question, use only the data for married people without children living at home (*marr*=1, *fsize*=2).

(1) How many married couples without children at home are in the data set?

(2) Use OLS to estimate the model

$$nettfa = \beta_0 + \beta_1 inc + \beta_2 age + u$$

and report the coefficient estimates and R^2. Interpret the slope coefficients. Are there any surprises in the slope estimates?

(3) Is *age* statistically significant? Obtain the 95% confidence interval of β_2.

(4) Does the intercept from the regression in part (2) have an interesting meaning? Explain

(5) Find the p-value for the test H0: $\beta_2 = 1$ against H1: $\beta_2 \neq 1$. Do you reject the null hypothesis at the 1% significant level?

(6) Find the p-value for the test H0: $\beta_2 = 1$ against H1: $\beta_2 > 1$. Do you reject the null hypothesis at the 1% significant level?