

SPSS Homework 8 - Correlation, Linear Models, Chi Square

- Deadline : Midnight Friday Week 12
- Submit by Email
- Subject Line : "MA405 Homework 8 Submission"
(*Dont not write anything else*)

SPSS Homework 8 - Task 1 Correlations (1/2 Mark)

- You should have a data set in the Zip file called **CorrCoef** Folder.
- You should have 10 variables: X1 to X10
- For the sake of simplicity, you may assume that the data sets are normally distributed.
- Give an example of a pair of variables that have
 1. very strong positive linear relationship
 2. relatively strong positive linear relationship
 3. weak positive linear relationship
 4. no linear relationship
 5. weak negative linear relationship
 6. relatively strong negative linear relationship
 7. very strong negative linear relationship

SPSS Homework 8 - Task 2 Simple Linear Regression (1 Mark)

- You should have a data set in the **Mileage** folder.
- Mileage is the dependent variable, Weight is the dependent variable.
- Fit a linear model and report the regression equation.
- Report the model summary and the regression anova table.

SPSS Homework 8 - Task 3 Chi Square (1 Mark)

You should have a data set in the **MarketResearchUpdated** folder.

- (i) Cross Tabulation of Sex and AgeGroup. This is the only cross-tabulation that you are to provide.
- (ii) Chi Square Test Statistic output for Sex and Agegroup
- (iii) Chi Square Test Statistic output for Sex and FaveBrand

- (iv) Chi Square Test Statistic output for Agegroup and FaveBrand
- (v) Briefly Interpret each of the Chi Square Tests.