Practical Week 2

Retrieve the file **trig.sav**. The data for this example are from a study of obese patients who took a drug and followed a weight reduction programme for 8 weeks. One objective of the study was to see whether weight loss leads to reductions in triglyceride levels.

The weight loss and reduction in triglyceride levels-together with few other variables- for 34 patients were recorded.

1. Plot the scatter diagram of reduction in triglyceride against weight-loss, add the regression line and comment.

Carry out the regression of the reduction in triglyceride levels on weight-loss.

2. How large/small is R-squared?
3. Is the regression statistically significant?
4. What is the estimate of σ^2?
5. Write down the regression equation.
6. Check the validity of assumptions of the regression as described in the lecture.

 Note: Data file is posted on Moodle