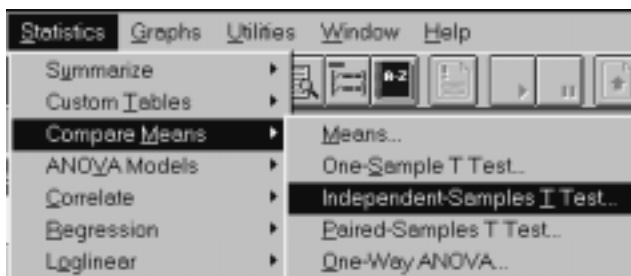


# CLOUD SEEDING EXPERIMENT

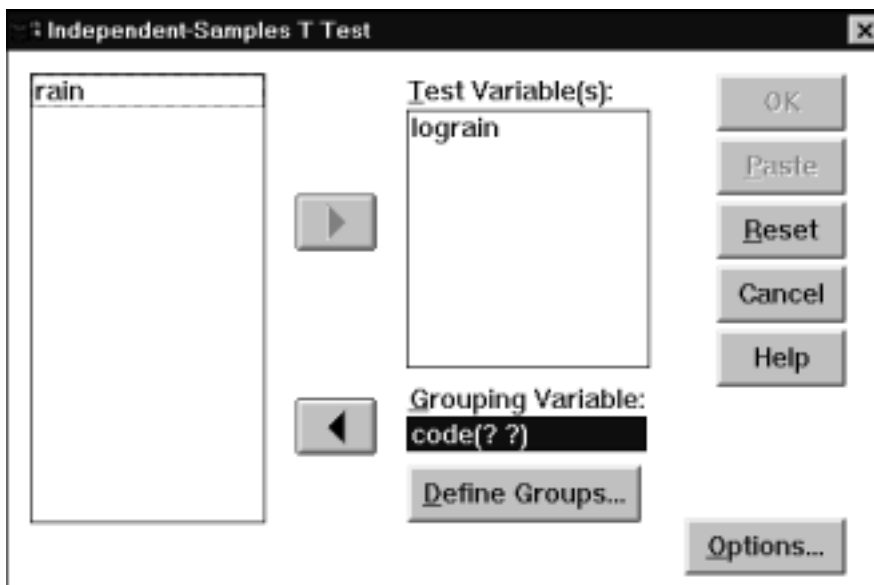
## 12. Making Inferences

As we deal with a randomized experiment, any inferences will be stated in terms of treatment effects rather than differences in population means. In order to see whether there is a treatment effect, we will use the t-test for two-sample problems in the way it would be used for a random sampling situation. The statistic can be accessed in SPSS by using *The Independent-Samples T Test* command. The procedure assesses the effect of seeding on rainfall.

We can carry out the test if there is no reason to suspect that the normality assumption is violated. In order to access the procedure, click on *Statistics*, and then on *Independent-Samples T Test*.



The following dialog box is displayed:



The variable code specifies two treatment groups, seeded and unseeded clouds.

Define Groups X

Use specified values

Group 1:

Group 2:

Cut point:

The outputs of the test for the data are displayed in Section 8.