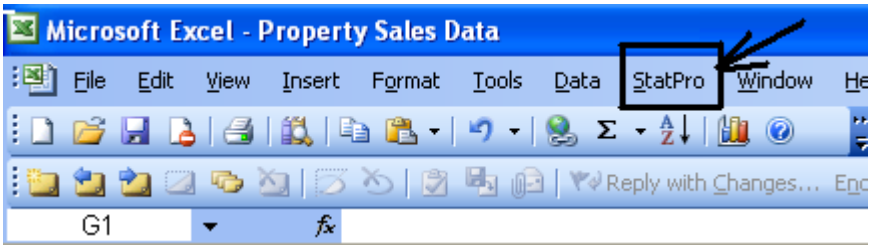
Task 2: Comparing the North Island sample with the South Island sample using boxplots (Instruction for StatPro + Excel)

In this task we investigate the difference between the two samples, using boxplots.

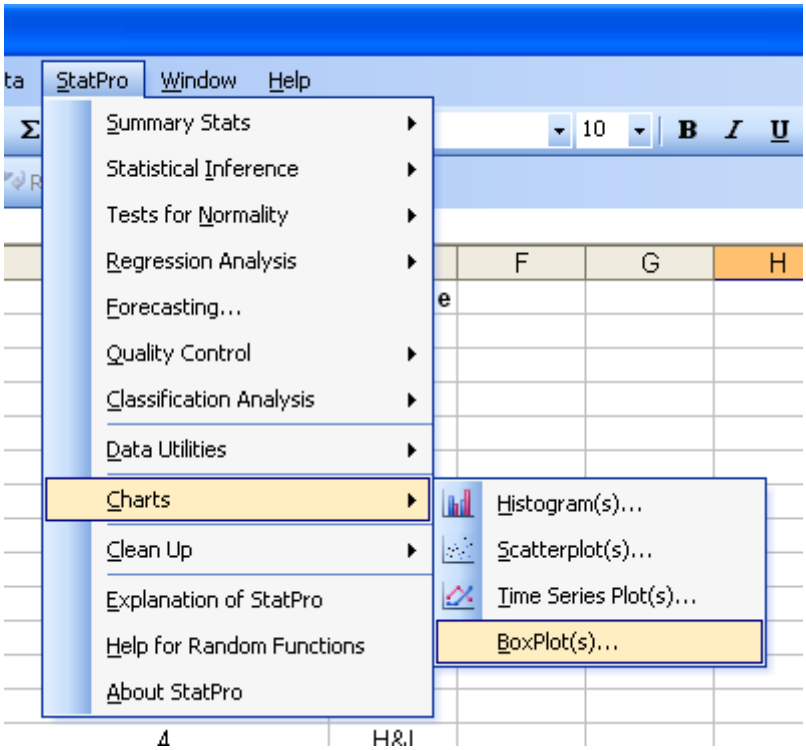
Before starting the tasks below, make it sure that StatPro is added to Excel. If StatPro is added to Excel, you can see **StatPro** listed on the menu. If not, you need to ask your teacher to add StatPro to Excel.



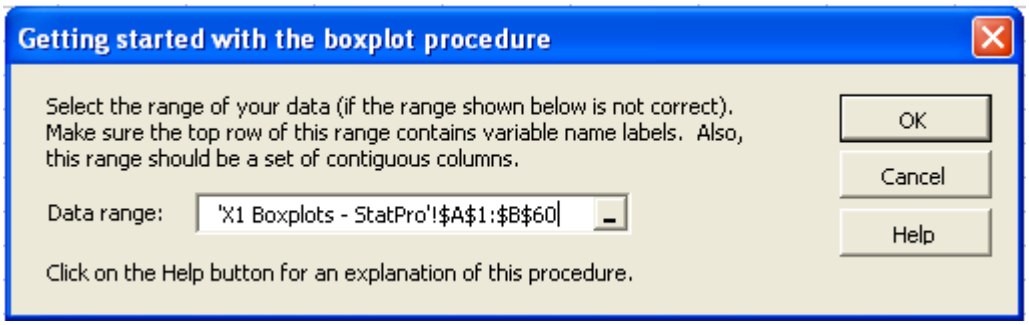
(1) Insert a new worksheet and name it as "X1 Boxplots - StatPro".

(2) Copy and paste the Island and X1 values from the "Dolphins data" worksheet to the "X1 Boxplots - StatPro" worksheet.

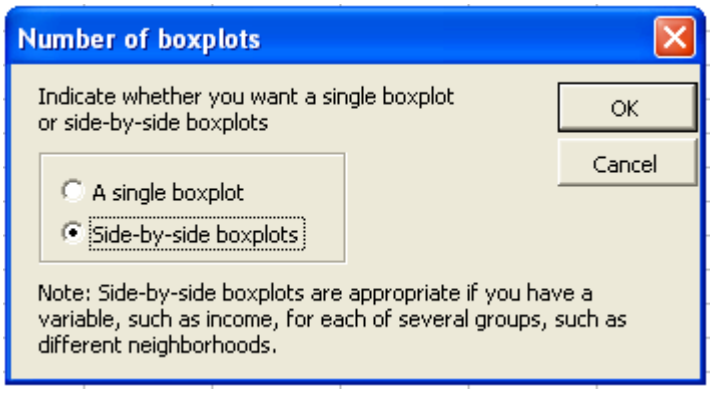
(3) Click on an empty cell on the the "X1 Boxplots - StatPro" worksheet and click **StatPro** in the menu, then **Charts**, and **BoxPlot(s)…**.



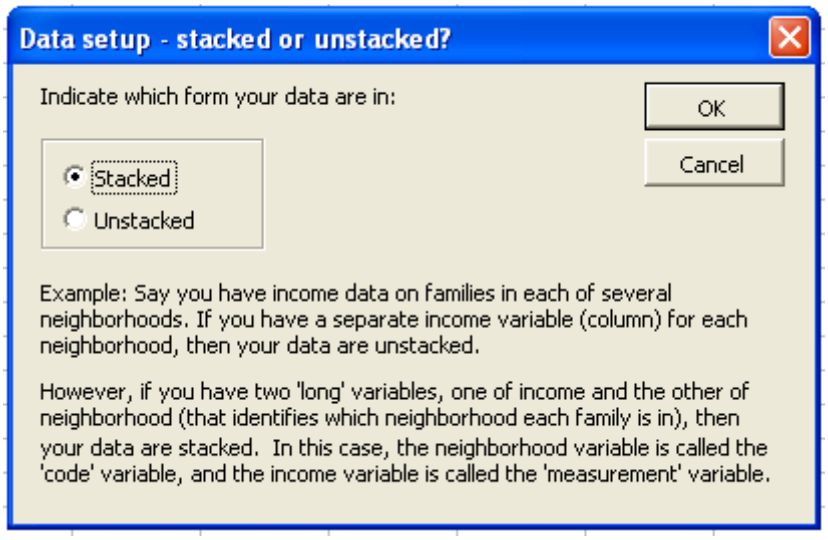
(4) Select the whole data (two variables including their names) in the **Data range** box and click **OK**.



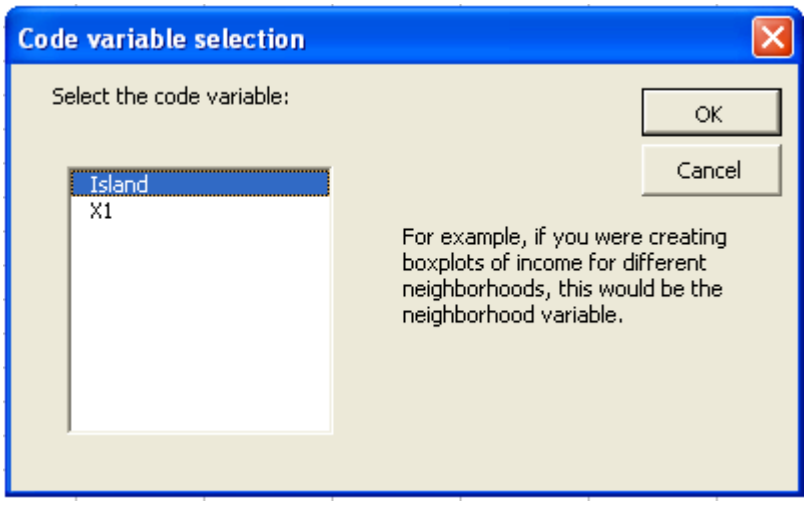
(5) Click on the **Side-by-side boxplots** option, then click **OK**.



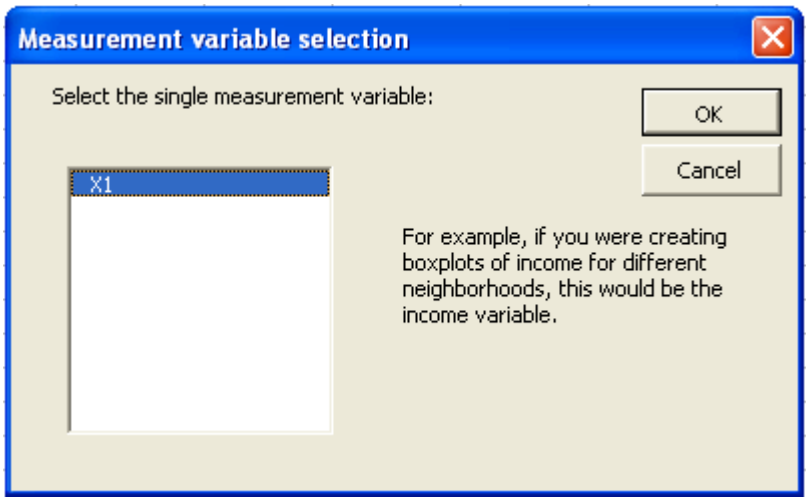
(6) Click on **Stacked** option and **OK**.



(7) We draw boxplots of X1 grouped by Island. Hence, our **code variable** is Island. Select **Island** from the list and click **OK**.



(8) Select **X1** as the **single measurement variable**, then click **OK**.



(9) Now a new worksheet named "Box-X1ByIsland" is automatically inserted, which contains the boxplots.

Right click in the boxplots and choose **Chart Options…** to format the boxplots.

For example, you can add a title and labels to the axes.

(10) Repeat the steps (1) ~ (9) for X2, X3, X4, X5 and X6.

Congratulations! You have successfully completed this task.

Do not forget to save all the worksheets you created, as we need to use them later for other tasks.
Name your worksheets appropriately, so that you can recognise them later.