







Notes to UML

Two functions scatterplot() and trendplot() are defined (as shown above) in a separate script and called from within the main script.

The script manipulates several data frames, placing variables into different dataframes for easier visualisation and to be writtne to an excel workbook containing only those data of interest from a larger dataset. The activity diagram for sleecting variables and cases is shown above but other manipulations are omited. Standard functions from within the Pandas library are used to concatenate, pivot and append variables selected out of the larger dataframe using a list object as a reference.

In total eight dataframes are produced, these are written out to an excel workbook. All are exported as tidy objects (Wickham, Hadley . "Tidy Data." *Journal of Statistical Software* [Online], 59.10 (2014): 1 - 23. Web. 30 Nov. 2017).