**Code:** (Generated by R language using RStudio)

**Dataset named:** Survey\_Data.xlsx

* Number of total scripts: 10
* All the scripts and data file (Survey\_Data.xlsx) should be in one folder
* Load (Run) all scripts (functions) before running the main function (Main.R).
* Set the correct path of Survey\_Data.xlsx in main function (Line 7th and 23rd of the Main.R).
* Run Main.R for execution of PCSD3 clustering.
* Function Pattern.R: create direction vector corresponding to each survey response in data
* Function Pat\_div.R: divide the set of direction vectors on the basis of respondent category.
* Function Ref\_creat.R: create reference vectors (each corresponding to a respondent group).
* Ref\_creat.R: calls Stat\_pat1.R, Stat\_pat2.R, Stat\_pat3.R, Stat\_pat4.R and Ref\_creat1.R.
* Stat\_pat1.R: calculates the frequencies of direction values in the set of direction vectors.
* Stat\_pat2.R: creates secondary data array (SDA) by using the frequencies.
* Stat\_pat3.R: crates an intermediate data matrix.
* Stat\_pat4.R: Creates Primary data array (PDA) by using the frequencies and constraint alpha.
* Ref\_creat1.R: is decision making procedure (use PDA and SDA for finding reference vector).
* Matc.R: is matching procedure that gives the final index to each survey response (Cluster).