**Lesson 7: Parameterization/ Data Driven Test**

Parameterization is a process in which parameters, or variables are substituted for hard-coded values which help perform the same operations on the AUT (application under test) with multiple sets of data. Executing the test again and again with same set of data will not help to identify accurate test script result.

Parameterization techniques helps to access the test data through different sources and via different ways. parameterization technique needs to be identified in advance and have to do the scripting according to the selected parameterization technique.

**There are four types of parameters:**

**Data table:** Data Table parameters enable you to create a data-driven test (or action) that runs several times using the data you provide. In each repetition, UFT uses a different value provided in data sheet. Data can be stored in excel file.

There are 2 types of Datatable.

**1. Design time datatable – Datatable which you see in UFT.**

**2. Run Time datatable – Datatable which is getting used at runtime. We can perform operation at run time and this datatable will be stored in the run result viewer at the end of execution.**

A DataTable, similar to Microsoft Excel, helps the testers to create data-driven test cases that can be used to run an Action multiple times. There are two types of Datatables −

**Local DataTable**: Each action has its own private datatable, also known as local datatable, which is can also be accessed across actions.

**Global DataTable**: Each test has one global data sheet that is accessible across actions.

To execute a test case for some specified number of iterations, one can set the iterations of global datatable in the Test Settings dialog, that can be accessed using File → Settings → Run(Tab)