

EXCEL AUTOMATION IN PYTHON

The future of digitalization is automation and this is true considering the various benefits associated with it. These benefits include; time, cost, safety and other savings. In this project, we will be seeing a real-life project, where the Python programming language was used to automate a process thereby reducing 99.55% of time the actual project should have taken if done manually while ensuring accuracy.

Problem Statement

Figure 1 shows the problem structure where **A**, **B**, **C** are spreadsheets in **.xlsx**, **.xlsx** and **.data** respectively. **Sheet A** contains the source data containing multiple rows

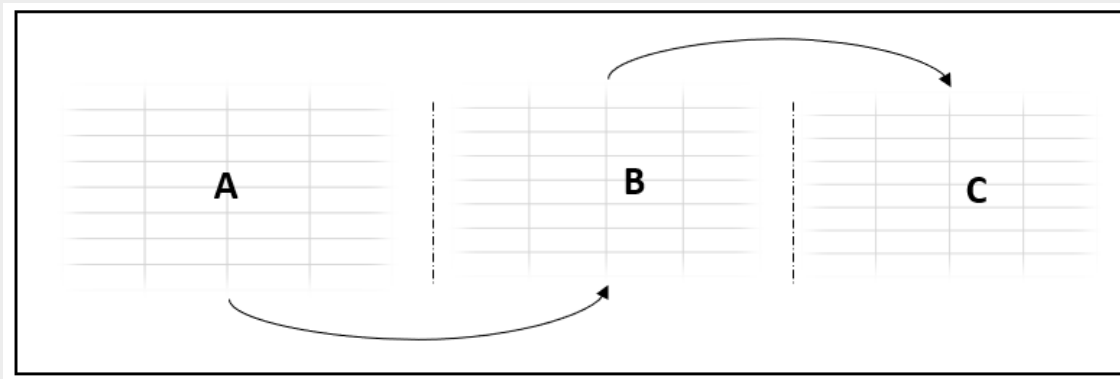


Figure 1: Automation structure showing sheet A, B and C

of data which will be inserted into **sheet B**. **Sheet B** is the actual sheet that are containing 18 cells to be modified. Once the **sheet B** is modified, they are now exported as **sheet C** in **.data** format, compactible with Schlumberger Eclipse.

Cost of Manual Solution

The challenges and cost of running this imputation manually based on how scattered the 18 cells are, are estimated to take up to **1-2 months**. However, this method is prone to **human errors** which will affect the simulation plan. Since the success of the simulation is probabilistic, then the whole editing process might be iterative, hence requiring more time.