**Process Overview:**

1. Loop through all files in a folder.
2. Check if the file extension is .pdf.
3. Prepare a data table with two columns: File Name and Status.
4. Add the file name and a status (e.g., "Valid PDF") to the data table for each PDF file.
5. Export the data table to an Excel file.

**Step-by-Step Implementation:**

**1. Variables Setup**

* **folderPath** (String): The path of the folder containing files.
* **allFiles** (Array of String): To hold the list of files in the folder.
* **pdfTable** (DataTable): To store the file name and status.

**2. Workflow Design**

Here's how to design the workflow in UiPath Studio:

**1. Create a New Sequence**

* Open UiPath Studio and create a new **Sequence**.

**2. Add Variables**

* Define the following variables:
  + folderPath → String → Example: "C:\YourFolderPath"
  + allFiles → Array of String
  + pdfTable → DataTable

**3. Initialize the Data Table**

- Build Data Table

- Use UiPath.Core.Activities.BuildDataTable to build a datatable with 2 columns:

<https://docs.uipath.com/activities/other/latest/workflow/build-data-table>

**4. Get Files from Folder**

* Use an **Assign** activity to get all files from the folder:

allFiles = Directory.GetFiles(folderPath)

**5. Loop Through Files**

* Add a **For Each** activity:
  + Input: allFiles
  + TypeArgument: String
  + Rename the loop variable to file.

**6. Check File Extension**

* Inside the **For Each**, add an **If** activity:
  + Condition:

Path.GetExtension(file).ToLower = ".pdf"

* + **Then**:
    1. Add a **Add Data Row** activity:
       - ArrayRow: {Path.GetFileName(file), "Valid PDF"}
       - DataTable: pdfTable
  + **Else**: (Optional) Handle non-PDF files if needed.

**7. Write Data to Excel**

* Outside the loop, add a **Write Range** activity (from Excel activities):
  + Workbook Path: Provide the full path to your Excel file (e.g., C:\YourPath\Queue.xlsx).
  + Sheet Name: "Sheet1"
  + Input DataTable: pdfTable
  + Make sure **Add Headers** is checked.