Practical No: 6

Excel Automation

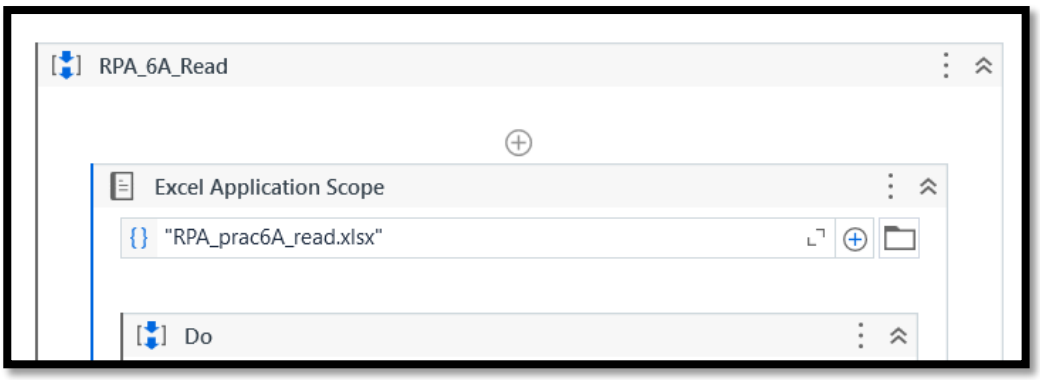
AIM: A) Create an application automating the read, write and append operation on excel file

READ

Step 1. Open main workflow

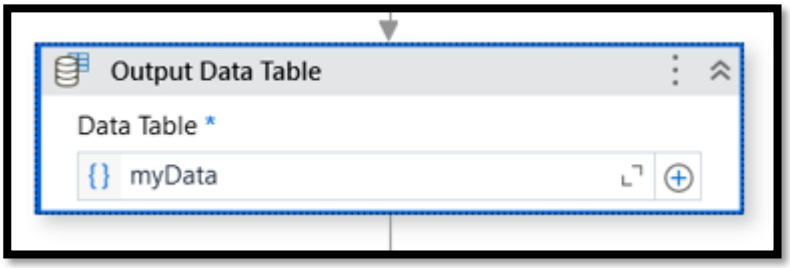
Step 2. Activities -> Excel application scope

Step 3. Add path of excel file

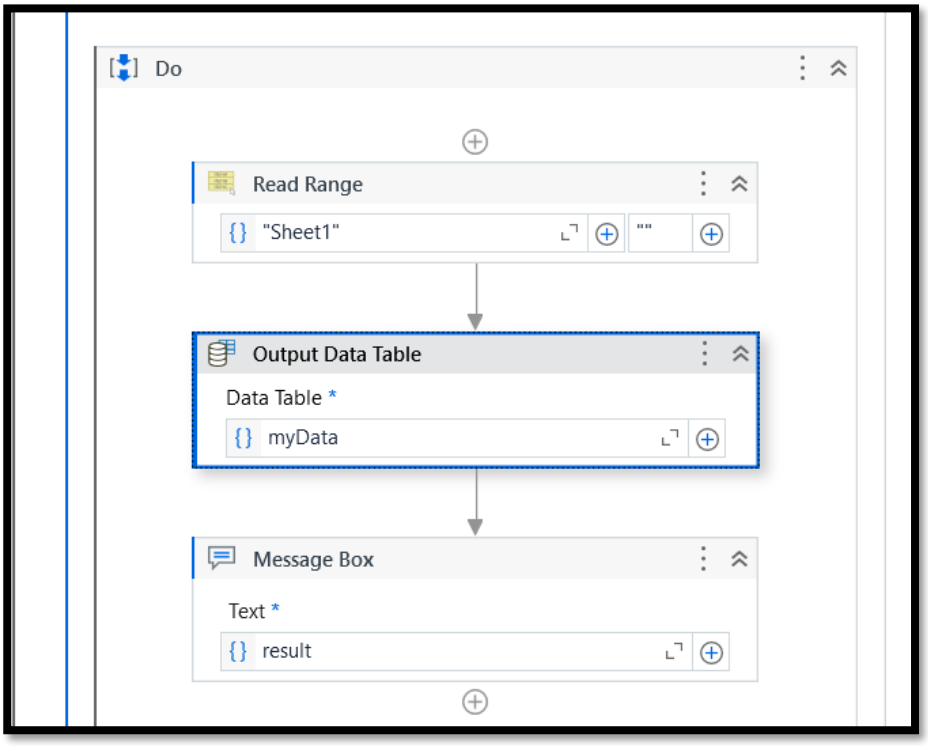


Step 4. In DO -> add read range -> create variable (myData)

Step 5. Add output data table -> create variable (result)



Step 6. Add message box

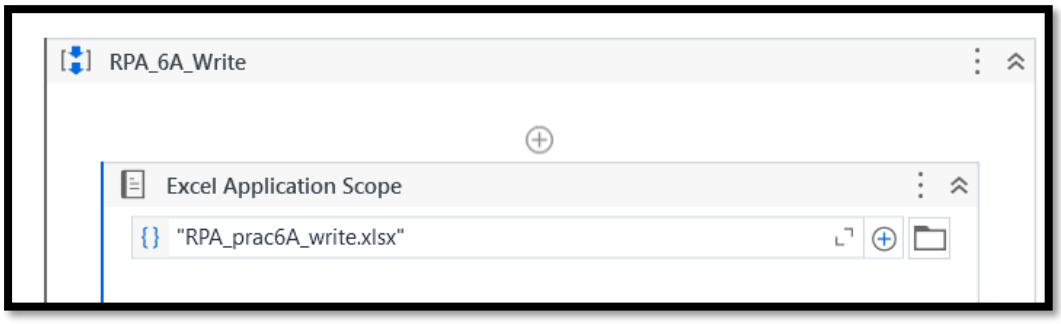


OUTPUT

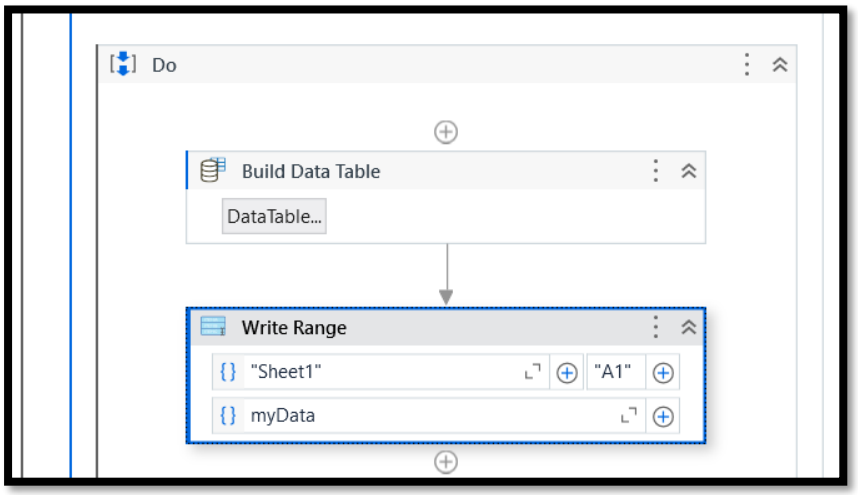
	A	B
1	Name	marks
2	Ninad	12
3	Ajay	13
4	Sairaj	15
5	Vighnesh	16
6	KS	11
7		
8		

WRITE

Step 1. Open main workflow
Step 2. Activities -> Excel application scope
Step 3. Add path of excel file



Step 4. In Do -> Add build data table -> add table data -> create variable(myData)
Step 5. Add write range



OUTPUT

F19

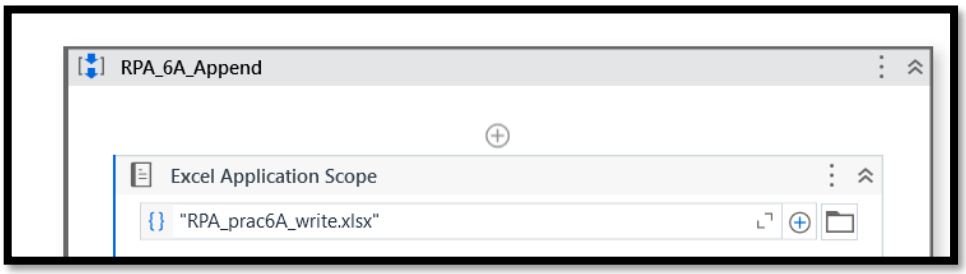
	A	B	C
1	Name	rollno	
2	Ninad	46	
3	KS	5	
4	Vighnesh	50	
5			
6			

Append

Step 1. Open main workflow

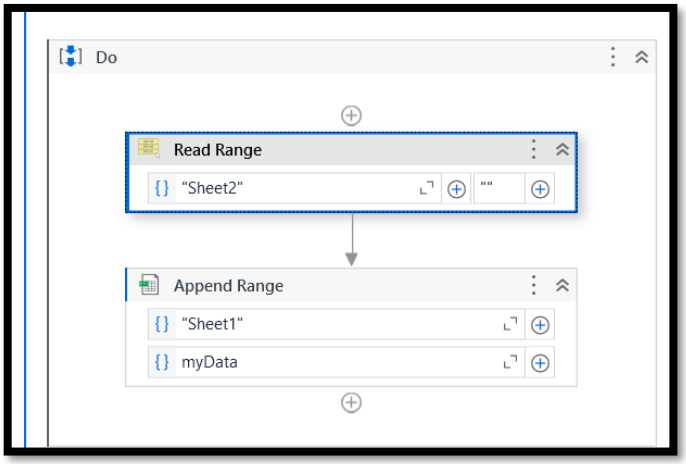
Step 2. Activities -> Excel application scope

Step 3. Add path of excel file



Step 4. In Do -> Add Read Range -> Sheet2 -> create variable(myData)

Step 5. Add Append range



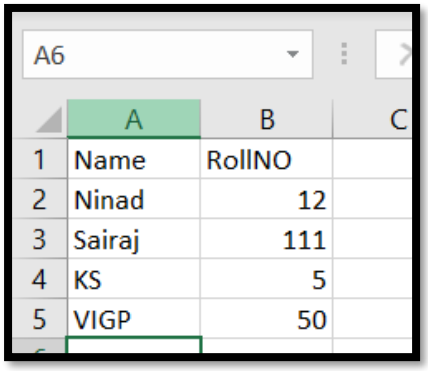
OUTPUT

	A	B	C
1	Name	rollno	
2	Ninad	46	
3	KS	5	
4	Vighnesh	50	
5	ABCD	65	
6			

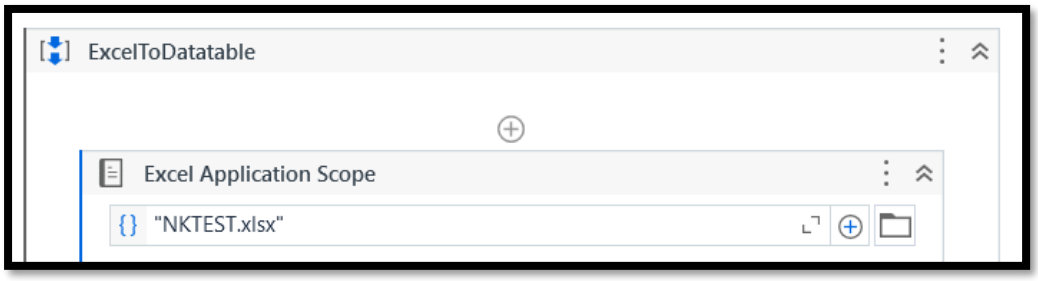
AIM: B) Automate the process to extract data from an excel file into a data table and vice versa.

I. Excel to Datatable

Step 1. Prepare an Excel file with data.

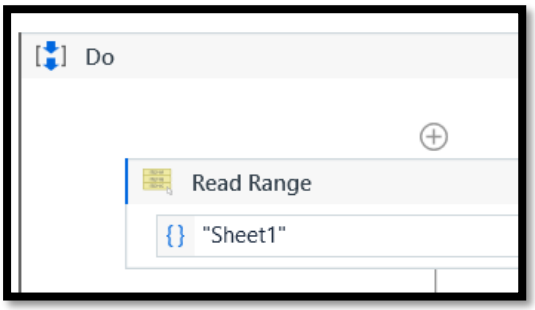


Step 2. Use the "Excel Application Scope" activity to specify the Excel file location.



Step 3. Read Range:

a. Add the "Read Range" activity inside the Excel Application Scope.

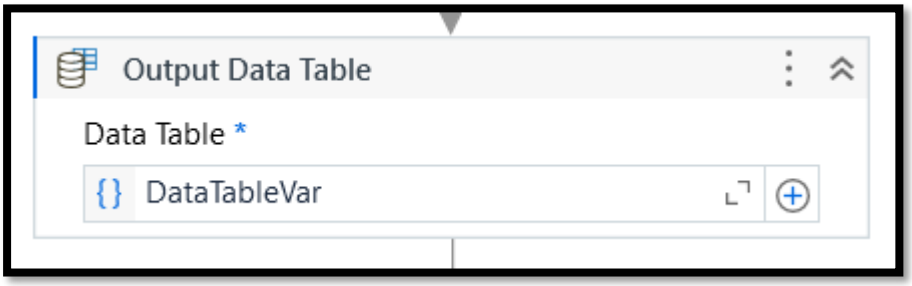


b. Create a variable (e.g., DataTableVar) to store the output DataTable.

Step 4. Output DataTable:

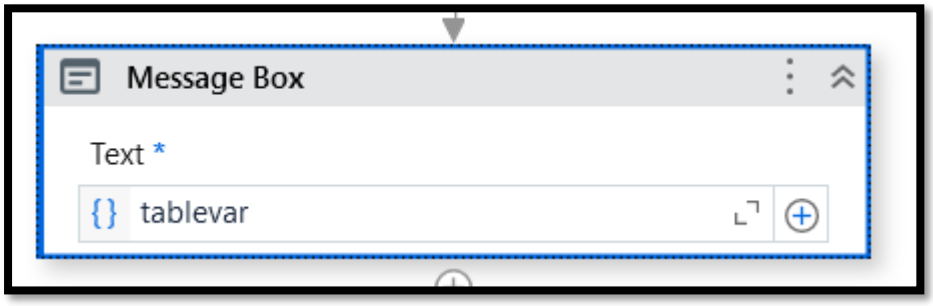
a. Use the "Output Data Table" activity.

b. Set the DataTableVar as the DataTable.

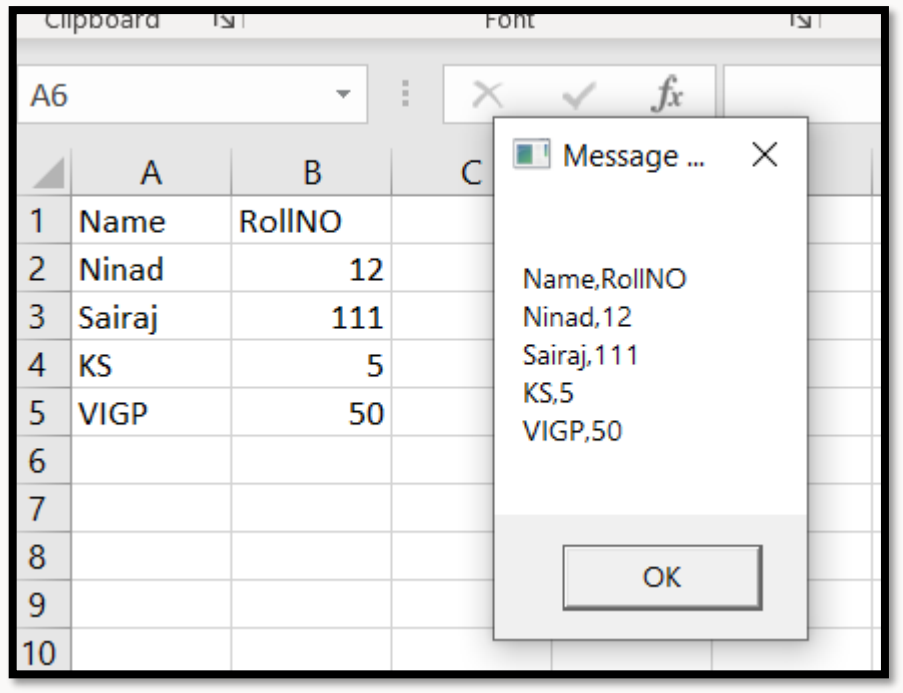


c. Create a new variable (e.g., TableVar) for the output.

Step 5. Add a "Message Box" activity.



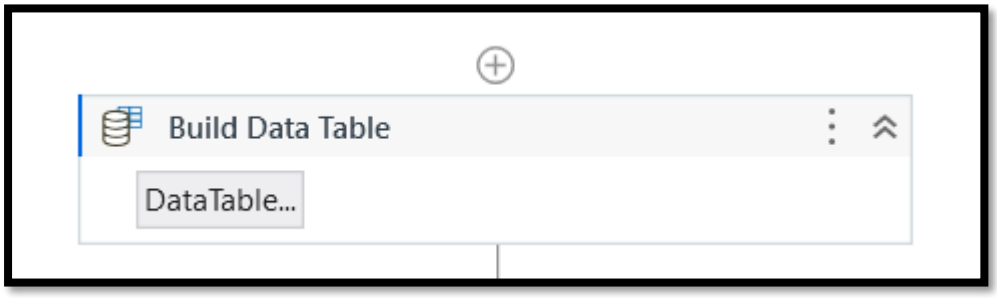
OUTPUT:



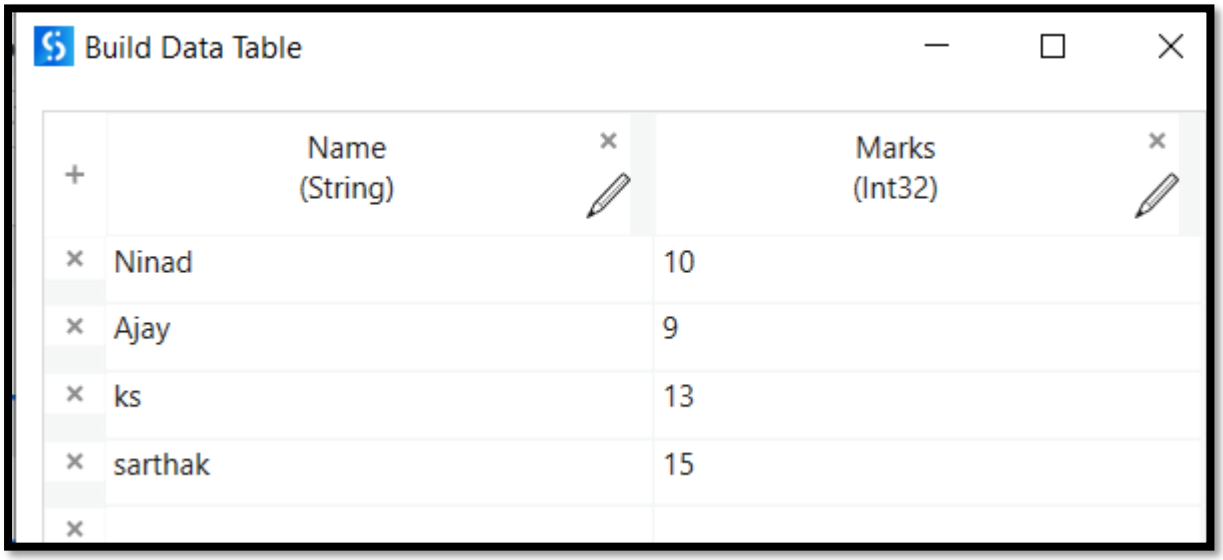
II. Datatable to excel

Step 1. Use the "Excel Application Scope" activity to specify the Excel file location.

Step 2. Add the "Build DataTable" activity.

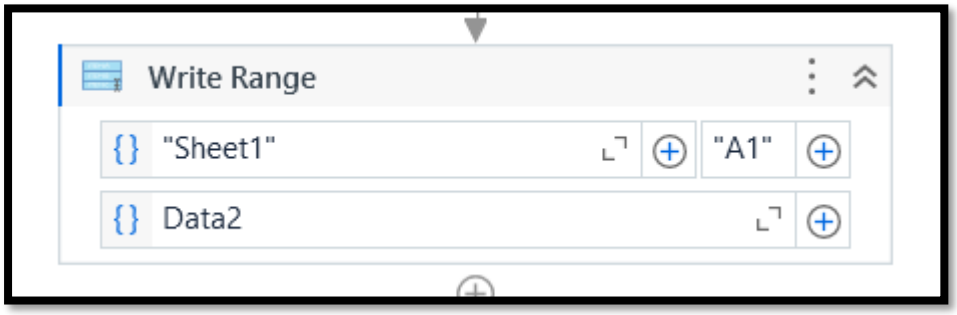


Step 3. Define the structure of the DataTable (columns).



Step 4. Create a variable (e.g., Data2) to store the DataTable.

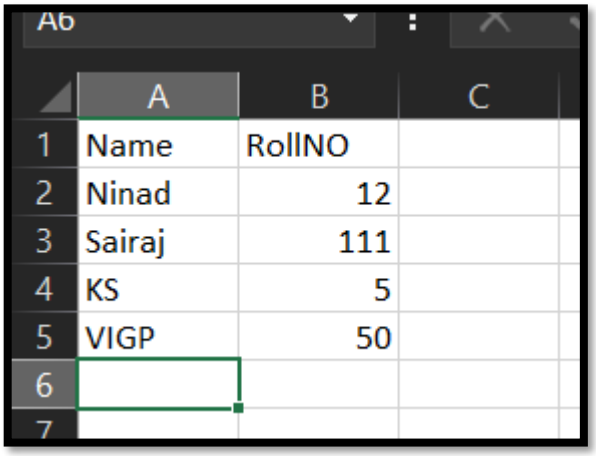
Step 5. Add the "Write Range" activity inside the Excel Application Scope.



Step 6. Configure it to write the DataTable (Data2) to a specific sheet.

Step 7. Save your workflow and run the sequence.

OUTPUT:



	A	B	C
1	Name	RollNO	
2	Ninad	12	
3	Sairaj	111	
4	KS	5	
5	VIGP	50	
6			
7			

LEARNING:

Automating Excel data extraction involves specifying file locations, reading and outputting DataTables, and handling DataTable structures, enhancing efficiency in data manipulation.