List of Lab Termworks for Robotic Process Automation – 22CS544

Sl.No	Termwork
1	Automation using variables. -Create a process that accepts an input from the user and saves it to a string variable (UserName). It should then assign a value to another string variable (Status). Upon execution, a log message with the concatenated values should appear in the Output panel.
2	Automation with Arguments (Multiple) -Create a process that asks the user for a purchase amount. It should then calculate the Value Added Tax (VAT) and the total purchase amount. Finally, this information should be displayed in a message box and logged into the Output Panel. The process should have three workflows- EnteringPurchaseAmount, CalculatingValueAddedTax, and the Main workflow.
3	Control flow. -Create a process to find out if the reporting year is a leap year or not. Try to perform this exercise in two different ways: by using If activity (in a sequence layout), by using Flow Decision activity (in a flowchart layout).
4	File and folder Automation: -The business requirement is to rename the pdf files within a given folder, so that the updated file name ends with the current date. Create a sequence that asks us what folder we want to process. Then, for each file in the folder, save the name to a variable. Next, add the current date to the value, and print it in the Output panel. Finally, change the name of the file.
5	Ui Automation -Create a simple automation process that opens the RPA Challenge website, inputs a name in the First Name field, and clicks the Submit button. Through this exercise you'll learn how to indicate a target and use an anchor to uniquely identify it, along with other supporting concepts. ! It's important to note that the fields on this website change position after every submission.
6.	Table Extraction: -Use Table Extraction wizard to scrape the **title, URL**, and **upload date** of the first three-page videos of "UiPath blogs" and then write the extracted data into an Excel workbook using an excel activities.
7.	String Manipulation using Regular Expression -Create a workflow that extracts all the email addresses from the provided template file using regular expression.

8.	String Manipulation Using List:
	a) Given a list of countries as input, sort the list in alphabetical order and then print out the first three values in descending order in the Output Panel.
	Note: Use the following value to initialization the list :
	new List (of String) from {"Germany", "Spain", "Japan", "Brazil", "India", "China"}
	
	b) Given a dictionary containing a year and associated name as input:
	    ▪ Calculate the number of victories of each winner.
	    ▪ Print every winner's name with its corresponding number of victories in the output panel.

	Note: Initialize a dictionary of type (Int32, String) with the following value: New Dictionary(Of Int32,String) From {{2006,"Oscar Pereiro"},{2007,"Alberto Contador"}, {2008, "Carlos Sastre"}, {2009,"Alberto Contador"}, {2010, "Andy Schleck"}, {2011, "Cadel Evans"}, {2012,"Bradley Wiggins"}, {2013,"Chris Froome"}, {2014,"Vincenzo Nibali"},{2015,"Chris Froome"},{2016,"Chris Froome"},{2017,"Chris Froome"}, {2018,"Geraint Thomas"}}.
9	Data Manipulation with Datatables - Create a workflow that calculates the sum of the values from two different columns in an Excel file and writes them in the third column. The workflow should be such that it keeps the Excel file open and writes the results in real-time, row by row so you can see the changes.
10.	Email Automation - Create a process to save invoice attachments from the email. Extract the total amount from each invoice file and consolidate it in an excel file with a grand total amount to be paid to the vendor.
11.	PDF Automation Create a process to extract syllabi of RPA from the whole the syllabus copy of the semester and dump it in a word file.
12	Version control with UiPath Studio: - Create a process that accepts two double values as input, calculates their sum and displays the result as output. The project should have two workflows: CalculateSum (Sequence layout), and the Main workflow, where the result of the calculation gets displayed. - Create a github repository, push the above project to github using version control in Uipath.