

**Objectives**

- design processes organized in several workflows;
- develop medium size workflows using various collection types (array, lists, dictionaries, data tables);
- use of I/O-based activities for .csv and .txt files.

Task	Description
<p>[individual/team]</p> <p><b>Multiple workflows</b></p> <p>[due: Lab03]</p>	<p>Create a workflow in UiPath Studio. Make use of the following concepts discussed in <b>Lecture 03</b>, considering at least the followings:</p> <ol style="list-style-type: none"> <li>1. min. 2 related workflows that are <i>invoked</i> (used) by the main workflow;</li> <li>2. use different argument <i>data types</i> and <i>directions</i> (in, out, in/out);</li> <li>3. read and write from a <b>.csv</b> or <b>.txt</b> file (or another file type); recommended activities to be used: <b>Read Text File, Write Text File, Write Line, Append Line, Read CSV, Write CSV</b>.</li> </ol> <p>The workflow will correspond to a process that performs a list of steps to achieve a meaningful goal, e.g., solve a (math) problem, several rule-based actions that accomplish various related tasks.</p> <p><b>Notes:</b> In order to achieve the tasks required for this assignment, students can work on the project prepared for <a href="#">Lab01</a> and improve it. Here are several ways to do that:</p> <ul style="list-style-type: none"> <li>• add new features/capabilities to the process;</li> <li>• allow different ways to input/output data (standard i/o, files);</li> <li>• use different collections than those employed in <a href="#">Lab01</a>;</li> <li>• refactor the initial workflow in several workflows (new workflows will have smaller complexity);</li> <li>• design a new process using the top-down approach allowing you to develop several workflows that call/use each other.</li> </ul>

**Recommended readings:**

- from the [RPA Developer Foundation](#) learning plan skim the followings lessons:
  - **Variables and Arguments in Studio** (1h30m)
  - **Control Flow in Studio** (2h)
  - **Data Manipulation with Strings in Studio** (1h)
  - **Data Manipulation with Lists and Dictionaries in Studio** (1h20min)