**Practical Exercise 29 - Adding the Ping Logic in Python**

**Exercise Description**

**In this practical exercise, our goal is to finish the logic for the ping functionality and complete the respective workflow.**

Here are the instructions for the exercise:

1. Extend the workflow 17-3-custom-actions-docker.yaml by:
   1. Changing the url input type to choice, and provide two options, one with the url of an existing website, and another with an unreachable url.
   2. Adding a second input named max\_trials, with a description of Maximum trials until action fails, a default value of '10', and not required.
   3. Adding a third input named delay, with a description of Delay in seconds between trials, a default value of '5', and not required.
   4. Correctly passing the values of all inputs to the underlying Docker custom action.
2. Update the Python script with the logic for the Ping functionality:
   1. Define a new function named ping\_url:
      1. The function should receive three parameters: the url, the delay, and the max\_trials.
      2. While the number of trials is less than max\_trials, make a request to the provided URL. If the response code is 200, return True. If the response code is not 200, sleep for the duration of delay and increase the number of trials.
      3. If the number of trials exceeds max\_trials, return False.
   2. Define a new function named run:
      1. The function should not receive any parameters.
      2. It should retrieve the input values via environment variables (for each input, there is an environment variable named INPUT\_<input name in capital letters>) and call the ping\_url function with the correct arguments.
      3. If the return value of ping\_url is False, the function should raise an exception, otherwise the function should not return anything.
   3. Update the body of the if \_\_name\_\_ == "\_\_main\_\_": condition to call the run function.
3. Commit the changes and push the code. Trigger the workflow from the UI and take a few moments to inspect the output of the workflow run.