# **Assignment – 8**

# **Airflow XCom**

**Due Date:** Feb 6, 2023

Tasks to-do:

* Create a dag
  + Start and end task
  + Process\_Data ShortCircuitOperator task
    - Read data from file “countries.json” in Assignments folder
    - Aggregate the population numbers to continent level. In simple terms, do a sum of population of all countries within each continent
    - Example:
    - {“europe”: 12000, “asia”: 14000, “america”: 1200}
    - At the end, it should be a dictionary with keys as continent names and values as sum of population of all countries within that continent
    - Do a xcom push of the above created dictionary
  + Based on the number of continents, create parallel shortcircuit tasks (one for each continent)
    - Example task name - Population\_Of\_Europe
  + Within this individual continent task, do a xcom pull and get the population count of its respective continent
  + Print the population count

Outcomes:

* 1 dag python file
* 1 dag config yaml file (if applicable)
* Screenshot of the dag successful execution

Submissions:

* Create a folder with your name under “Staffing Training 2023/Submissions”
* Share above folder with me so I can access your submissions
* Create another folder with the assignment name “"Assignment 8 - Airflow Xcom”
* Copy all the above-created files into that folder
* Send me a slack message on the “training\_2023\_assignments\_discussion” channel