# Course: Big Data Lab 03 MapReduce

Fill answers of the questions below in the given tables. Your screenshots must contain commands for required operations.

## Question 1:

Given a tsv file <u>WHO-COVID-19-20210601-213841.tsv</u> which is corresponding to the <u>WHO Coronavirus (COVID-19) Dashboard.</u>

Students are required to create a folder, named lab03, in HDFS and then copy the tsv to lab03/input/

Take a screenshot to show the content of lab03/input/ in HDFS

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# Question 2:

Create one and only one java file, named **ASEANCaseCount.java**, to run a MapReduce job that counts the number of cumulative total cases among ASEAN countries (*South-East Asia Region in the given data table*).

The output of the MapReduce job is located in lab03/output-java/.

Submit the source code file following the instructions in Submission Notice.

# Question 3 (*optional*):

Create a pair of Python files, named **ASEANDeathCountMapper.py** and **ASEANDeathCountReducer.py**, to run a MapReduce job that counts the number of cumulative total deaths among ASEAN countries (*South-East Asia Region in the given data table*).

The output of the MapReduce job is located in lab03/output-python/.

Submit the source code files following the instructions in Submission Notice.

### **Submission Notice**

- Export your answer file as pdf
- Rename the pdf following the format:

#### lab03 <student number> HoTen.pdf

E.g. lab03\_123456\_NguyenThanhAn.pdf

If you have not been assigned a student number yet, then use 123456 instead.

Create a folder with the name as <student number>\_HoTen, which contains

0	<student number="">_HoTen.pdf</student>		→ your answer
0	java/	1	ightarrow Java source code folder
		ASEANCaseCount.java	
0	python/	1	→ Python source code folder
	ASEANDeathCountMapper.py		
		LASEANDeathCountReducer by	

- Compress the folder **<student number>\_HoTen** in zip format and finally submit to the given form.
  - E.g. 123456\_HoTen.zip
- Careless mistakes in filename, format, question order, etc. are not accepted (0 pts).