Question 1:

Install Apache-Spark in your laptop/desktop and upload the screenshots. The expected screenshot should contain a terminal (on mac and linux systems)/command prompt with the welcome page.

Screenshot of creating a Spark Installation directory and un-tarring the installation file.

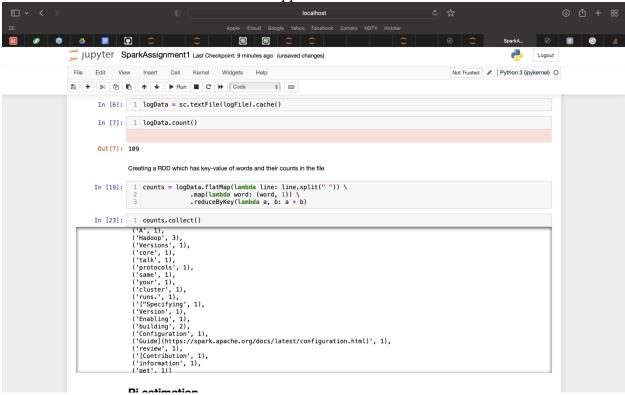
Screenshot of Spark welcome page

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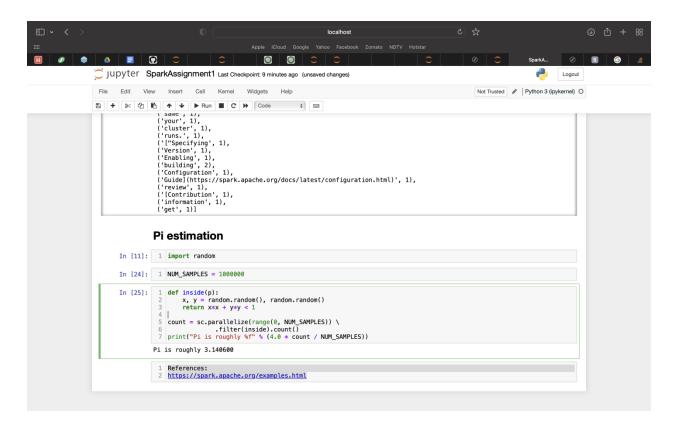
Question 2:

Run 2 example spark codes and upload the resulting screenshots.

The first code I ran will count the number of words in a README.md file of Spark installation. I have also created an RDD of this same README.md file which stores the key as the word and the value as the number of times the word appears in this file.



The 2^{nd} code is the Pi Estimation where the code estimates the value of π picking random points in the unit square ((0,0),(1,1)) and get an estimate of fraction $\pi/4$ of those which fall in the unit circle.



Using the Module for reference, I ran the code which creates a Spark Session and a dataframe using RDD API. Then we group by Names of people in the dataframe and take an aggregate of their age and show their average age.

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References:

https://spark.apache.org/examples.html Modules