Docker Setup:

Step-1: open a browser and sign in (https://www.docker.com/), then download the docker-desktop-installer.exe (Windows-AMD64) file.

step-2: Search for 'turn windows features on or off' from your PC's start
menu.

step-3: See the options 'Hyper-V' and 'Windows Subsystem for Linux' and check them, then click 'OK'. The pc will required restart after few minutes.

step-4: Open command prompt and type-

- > wsl --status
- > wsl --update
- > wsl --set-default-version 2
- > wsl --set-default-version 1
- > wsl --set-default-version 2

step-5: install and execute (docker-desktop-installer.exe) that you have downloaded. PC will take restart again.

step-6: Open command prompt and type-

- > docker version
- > docker images
- > docker search mysql

Docker Execution

step-1: open a browser and serach for 'https://docker-curriculum.com/' and see the commands.

step-2: run 'ocker-desktop-installer.exe' application and open the docker terminal and execute the following commands:

- \$ docker run hello-world
- \$ docker pull busybox
- \$ docker run busybox
- \$ docker run busybox echo "hello from busybox"
- \$ docker images
- \$ docker ps
- \$ docker ps -a

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step-3: Run hadoop in docker terminal:
      $ docker pull macio232/hadoop-pseudo-distributed-mode
      $ docker run -p 9870:9870 -p 8088:8088 -it --name=testHadoop
macio232/hadoop-pseudo-distributed-mode
step-4: a console will open (for linux)
      # 1s
      # cd home/
      /home# cd hadoop/
      /home/hadoop# vi student.txt
Step-5: write some thing to the student.txt file
      Kabir 24
      Bashar
                  25
     Momin 26
      Atik 24
      Amir 25
      type "esc -> : -> wq -> enter" for write and quite.
step-6: now open a local browser and check the ports are active
(port:127.0.0.1:9870 and port:127.0.0.1:8088)
step-7: create a folder on hadoop ecosystem.
      /home/hadoop# hdfs dfs -mkdir /samrat/
      /home/hadoop# hdfs dfs -put '/home/hadoop/student.txt' /samrat
      /home/hadoop# hive
      hive> show databases;
      hive> create database samrat-test;
      hive> show databases;
      hive> create database samrat_test;
      hive> use samrat_test;
      hive> show tables;
      hive> create table student(Name string, Age int)
      > Row format delimited
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> Fields terminated by '\t';
hive> show tables;
hive> slect * from student;
hive> load data inpath /samrat/student.txt into table student;
hive> slect * from student;
hive>
step-8:
To close the the above docker window, open a new window and type
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hive> docker stop testHadoop
step-9: To reopen the the closed docker window, type

hive> docker container start -i testHadoop;