# **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

**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)

# ls

# 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

> 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

hive> docker stop testHadoop

step-9: To reopen the the closed docker window, type

hive> docker container start -i testHadoop;