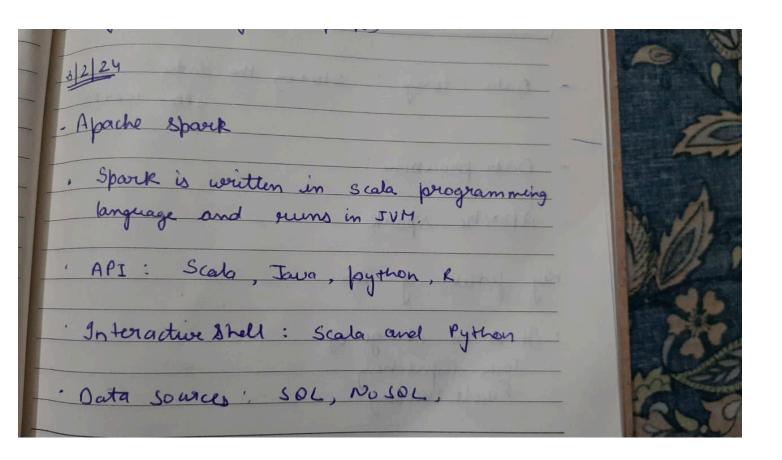
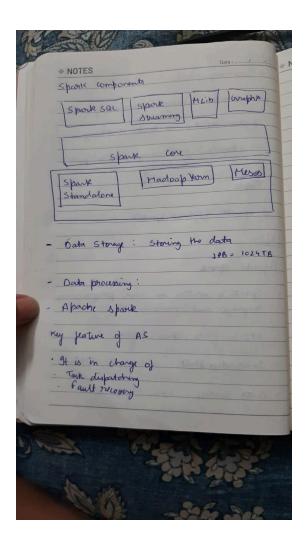
Asmita Porwal
Batch-1
Day-11
3/2/2024
Data engineering

Assignment-11

Hand written notes during the session:





Installing Required Softwares:

Java: As java was already installed on my computer, I checked if it is working fine or not.

```
C:\Users\Asmita porwal>java --version
java 21.0.2 2024-01-16 LTS
Java(TM) SE Runtime Environment (build 21.0.2+13-LTS-58)
Java HotSpot(TM) 64-Bit Server VM (build 21.0.2+13-LTS-58, mixed mode, sharing)
```

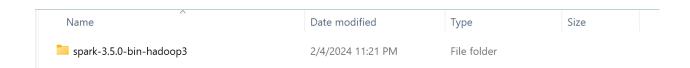
Python: Python was also installed in the system and checked version for it.

C:\Users\Asmita porwal>python --version Python 3.11.5

Apache PySpark:

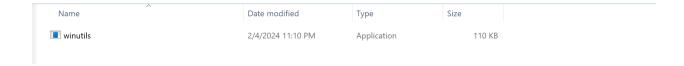
From URL:

https://www.apache.org/dyn/closer.lua/spark/spark-3.5.0/spark-3.5.0-bin-hadoop3.tgz Downloaded the zip file :



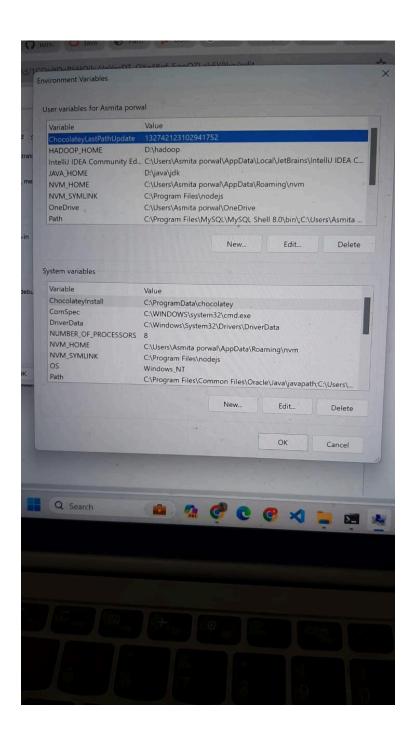
For hadoop:

Downloaded the winutils.exe file:



Setting environment variables:

Added environment variables in system variables :



Then on Powershell started shell service:

Then on browser by entering URL: http://lenovo-ideapad:4040/jobs/

