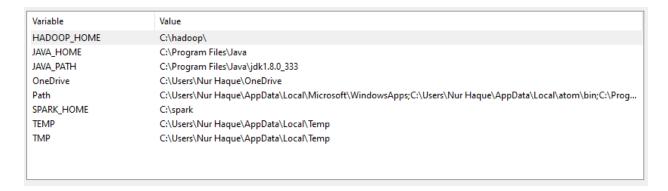
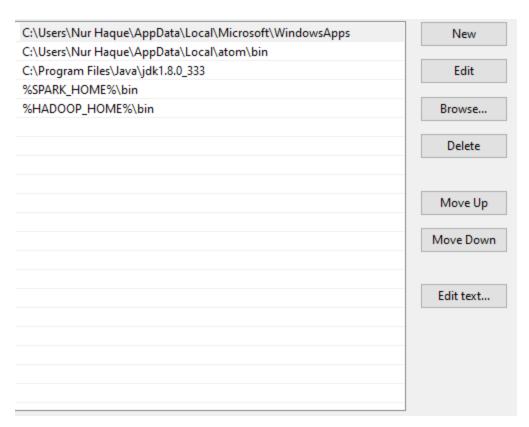
Assignment3_Haque

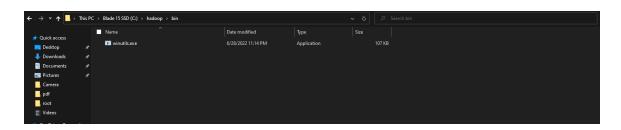
Spark Download in windows

1. Set the environment variables in windows

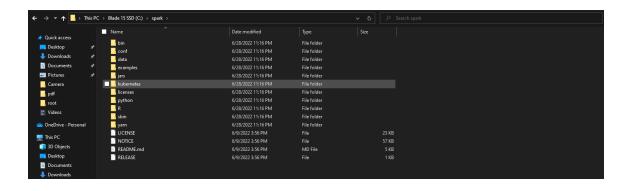




Download Hadoop executable



Download Spark



Run Spark using the following commands

spark-shell

Assignment3_Haque 1

```
Q) a - spark-shell

22/06/28 23:44:34 WARN Utils: Your hostname, LAPTOP-IUI6PNVO resolves to a loopback address: 127.0.1.1; using 172.30.230 .189 instead (on interface etho)

22/06/28 23:44:34 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address

Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).

22/06/28 23:44:47 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl asses where applicable

22/06/28 23:44:49 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempting port 4041.

22/06/28 23:44:49 WARN Utils: Service 'SparkUI' could not bind on port 4041. Attempting port 4042.

Spark context Web UI available at http://172.30.230.189:4042

Spark context wailable as 'sc' (master = local[*], app id = local-1656474290294).

Spark session available as 'spark'.

Welcome to

/ _ / _ / _ / _ / _ / _ / _ / _ /

| Using Scala version 2.12.15 (OpenJDK 64-Bit Server VM, Java 11.0.15)

Type in expressions to have them evaluated.

Type :help for more information.
```

pyspark

```
Q) — pyspark

Python 3.8.10 (default, Mar 15 2022, 12:22:08)
[GCC 9.4.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

22/06/28 23:47:03 MARN Utils: Your hostname, LAPTOP-IUIGPNVO resolves to a loopback address: 127.0.1.1; using 172.30.230
.189 instead (on interface etho)

22/06/28 23:47:03 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address

Setting default log level to "WARN".

To adjust logging level use sc.setLoglevel(newLevel), For SparkR, use setLoglevel(newLevel),

22/06/28 23:47:06 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl

asses where applicable

22/06/28 23:47:09 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempting port 4041.

22/06/28 23:47:09 WARN Utils: Service 'SparkUI' could not bind on port 4041. Attempting port 4042.

Welcome to

\[ \limits_{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text
```

Execute the code using the following command

```
spark-submit wordCount.py /home/nur_haque/spark/Assignment1/test.txt 5
```

Assignment3_Haque 2

Assignment3_Haque 3