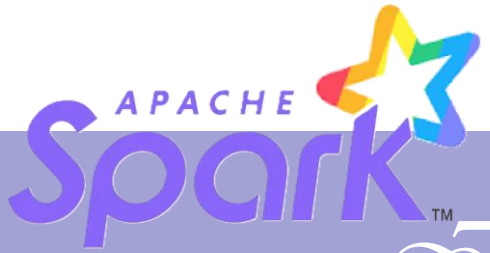
BigData Analytics

Dr. SOHAIL IMRAN



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JDK 17.0.16 checksums and OL 9 GPG Keys for RPMs

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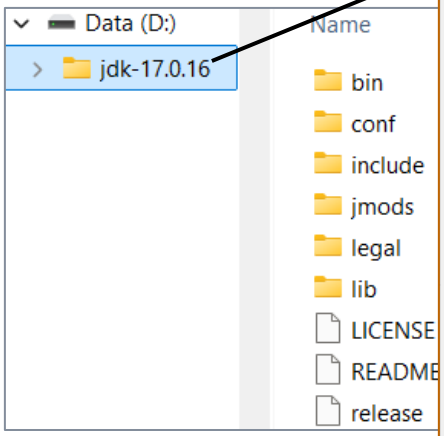
Setup JAVA_HOME

Extract

1



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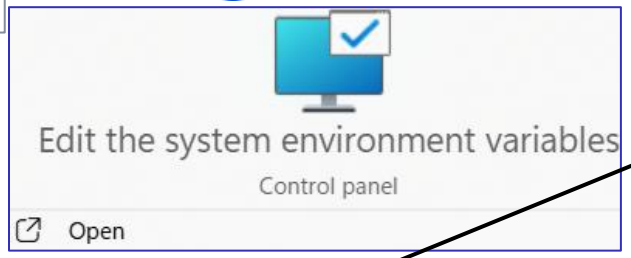
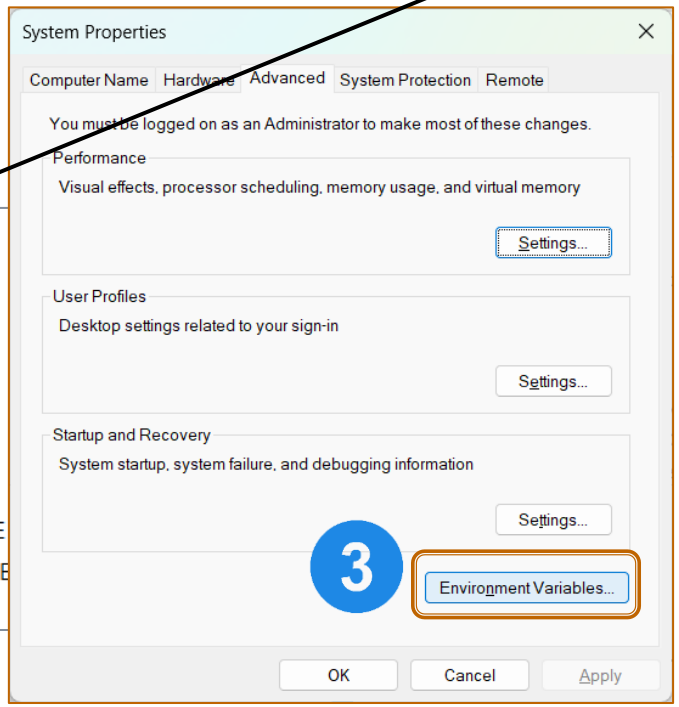
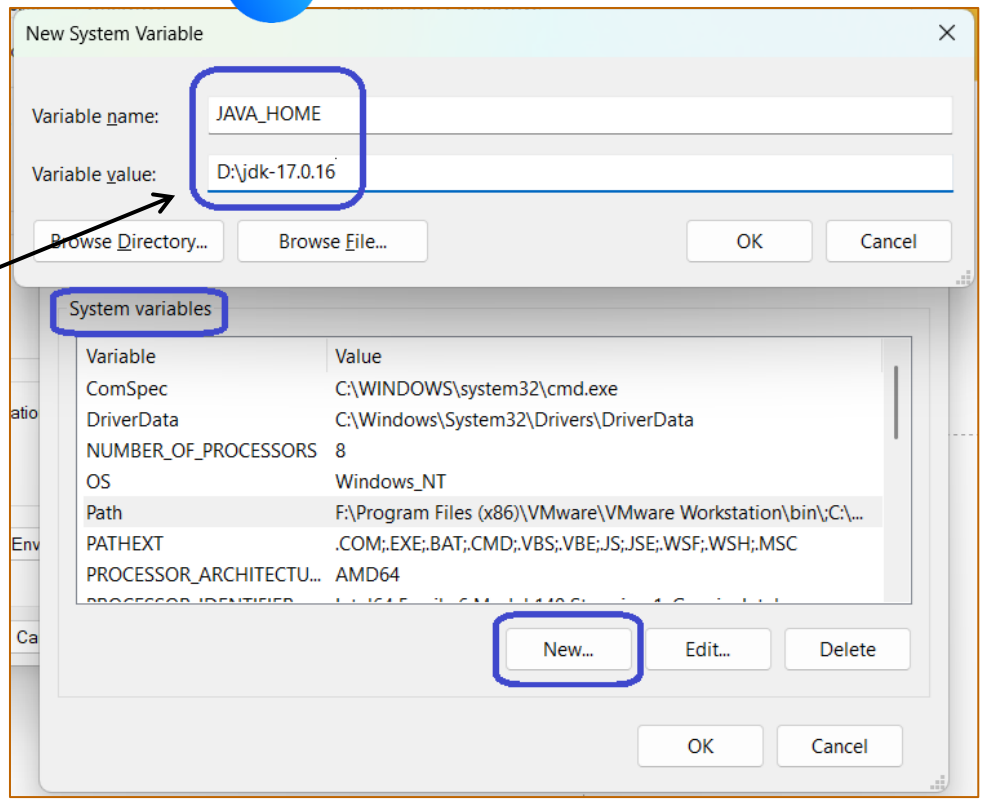


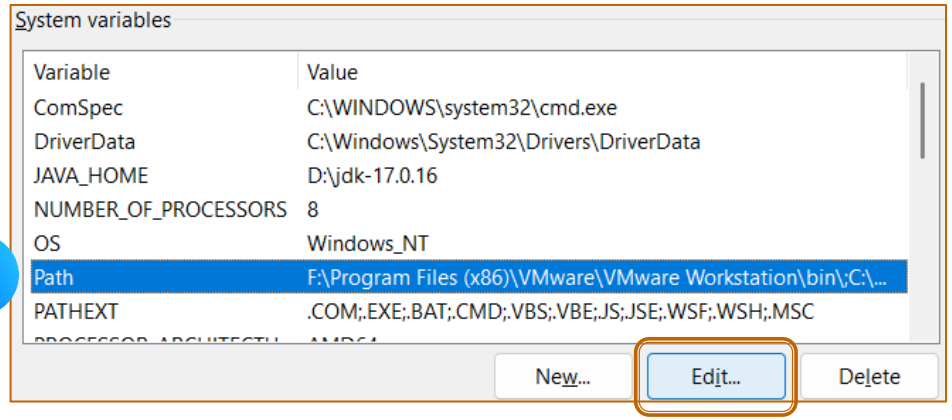


3

4



Setup - PATH



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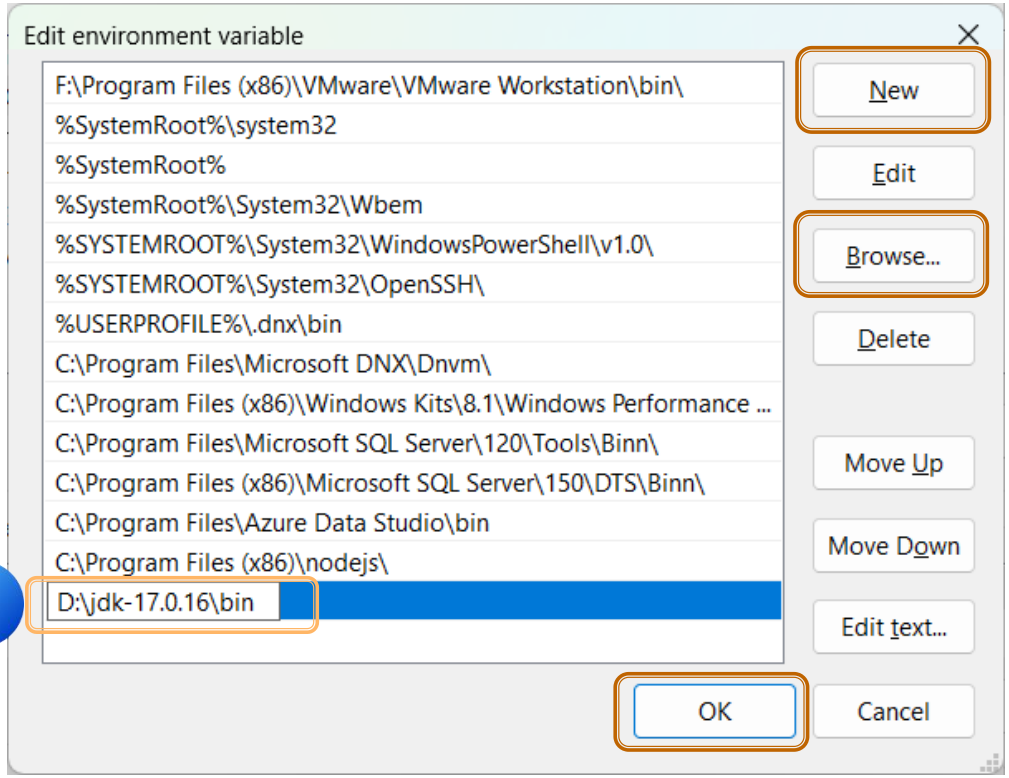
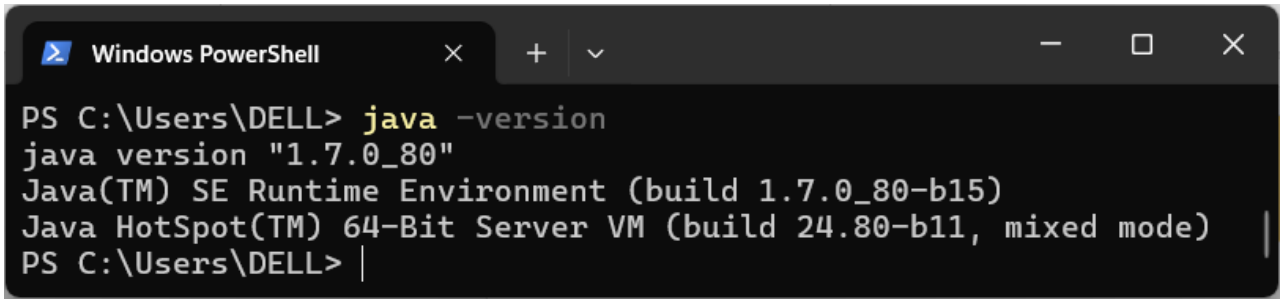


2

3

java -version



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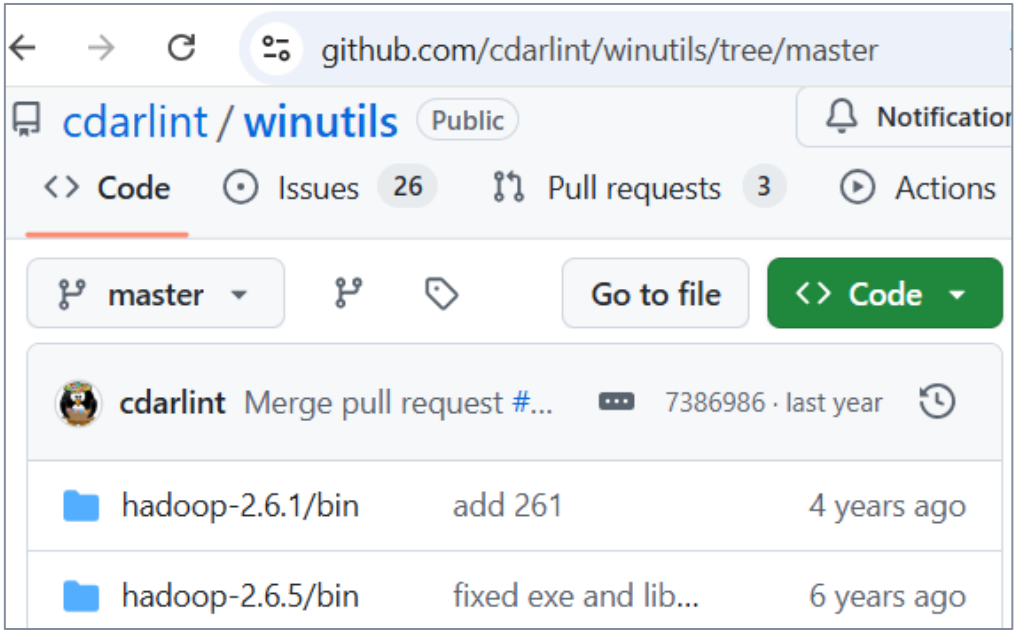
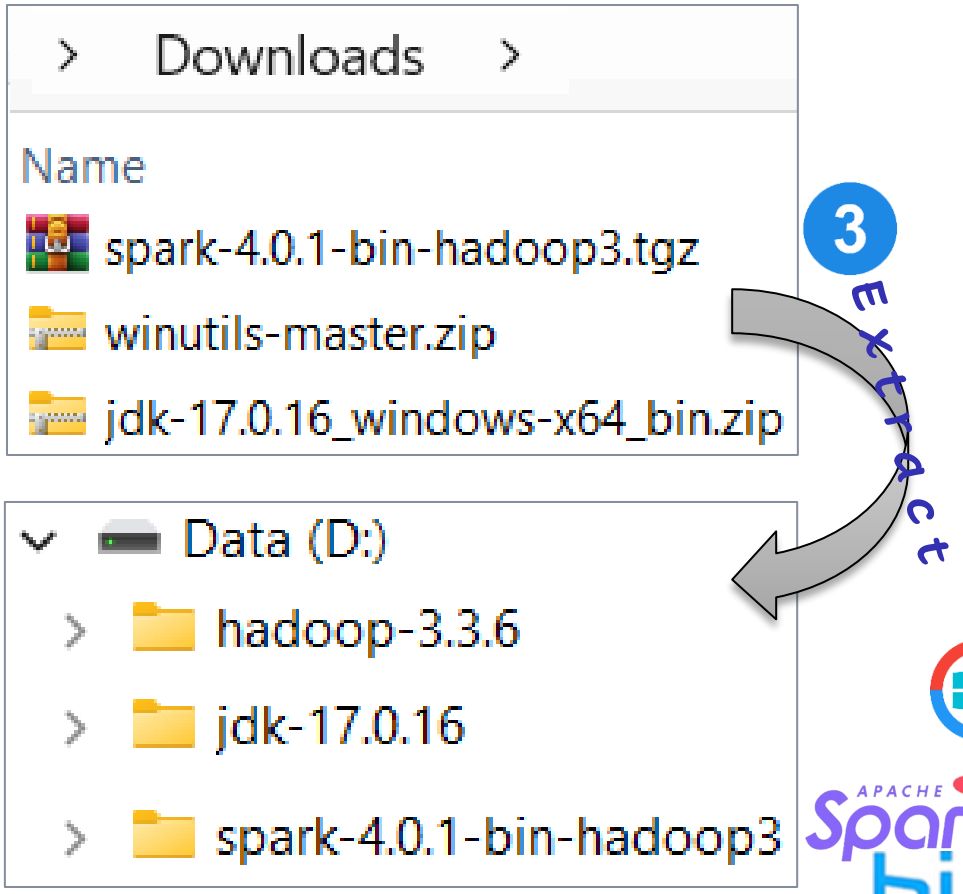
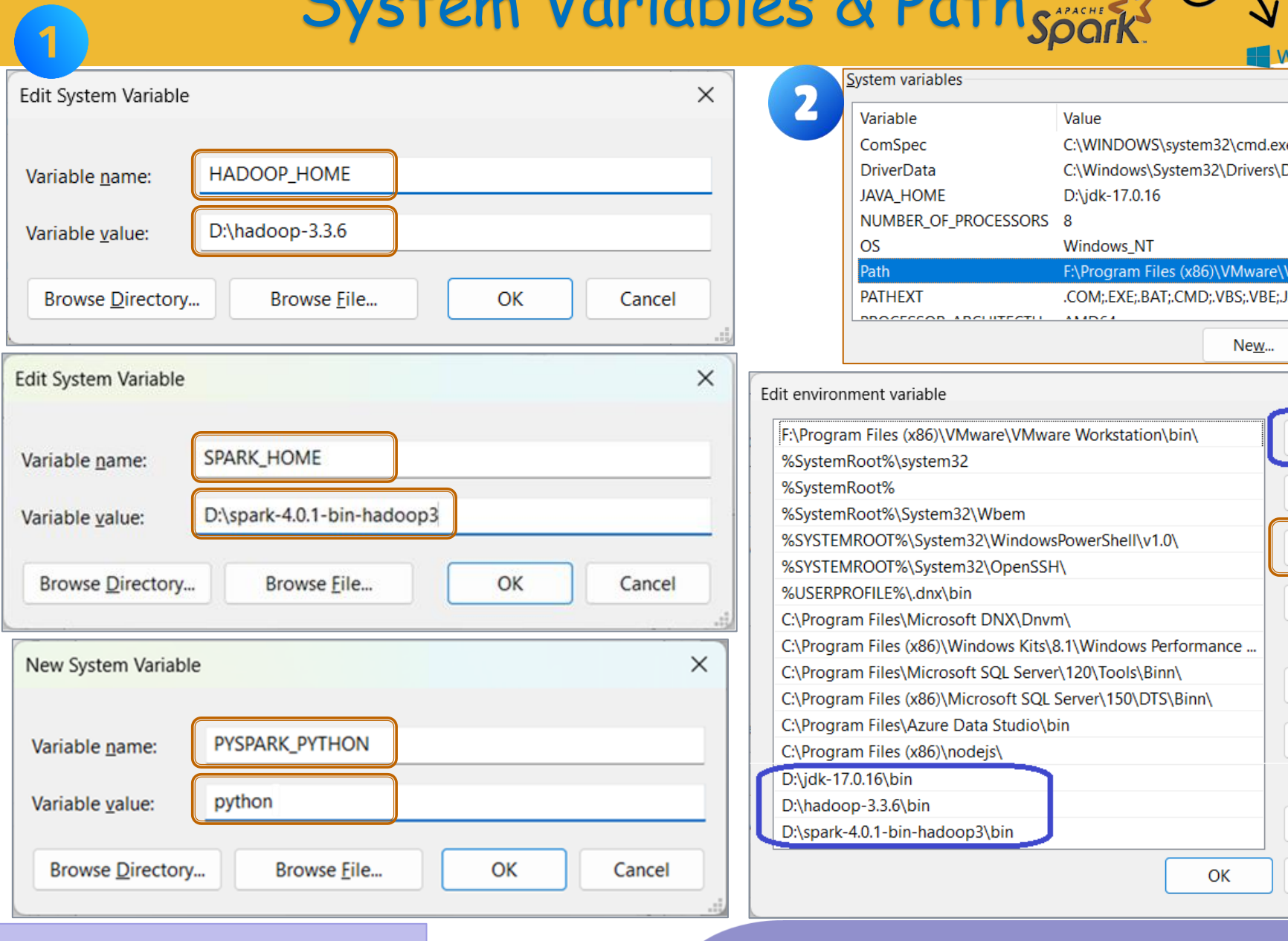
1. https://dlcdn.apache.org/spark/spark-4.0.1/spark-4.0.1-bin-hadoop3.tgz

2. https://codeload.github.com/cdarlint/winutils/zip/refs/heads/master





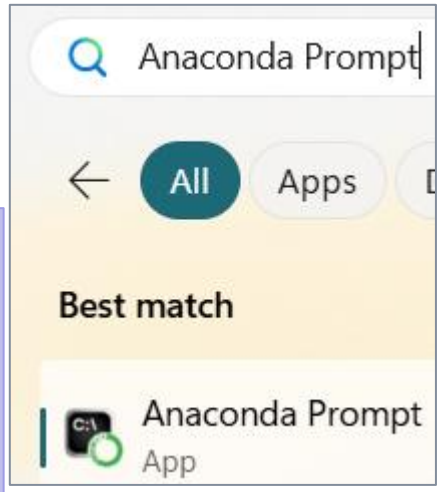
System Variables & Path



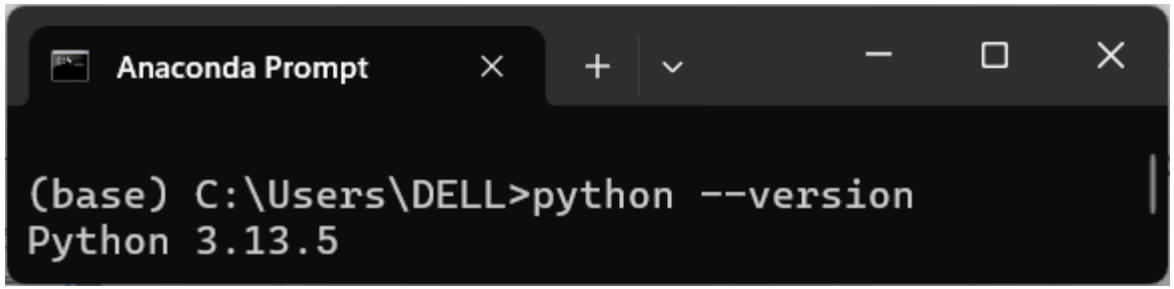
spark-shell

spark-shell

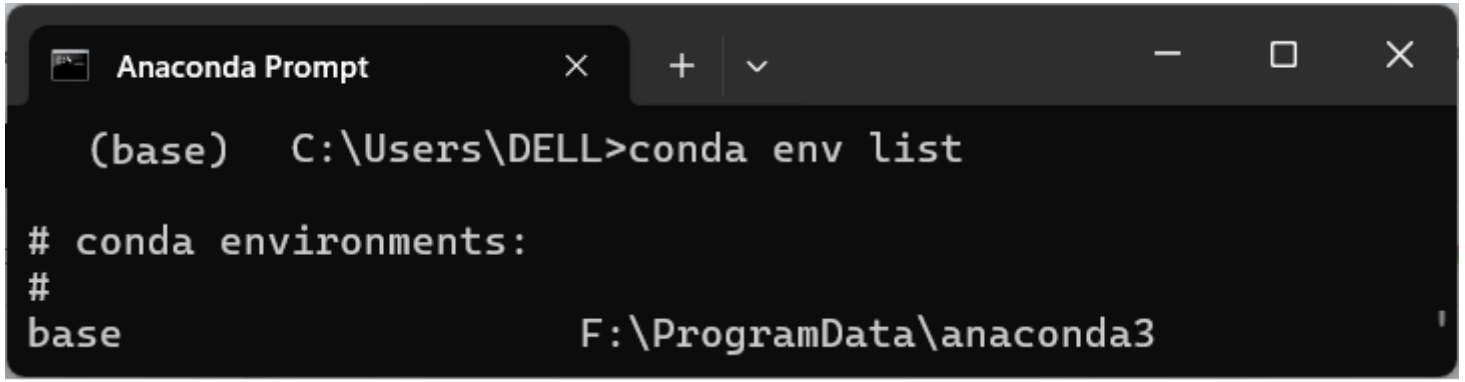
```
Windows PowerShell
PS C:\Users\DELL> spark-shell
WARNING: Using incubator modules: jdk.incubator.vector
Using Spark's default log4j profile: org/apache/spark/log4j2-defaults.properties
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).
Welcome to
      ____              __
     / __/__  ___ _____/ /__
    _\ \/ _ \/ _ `/ __/  '_/
   /___/ .__/\_,_/_/ /_/\_\   version 4.0.1
      /_/

Using Scala version 2.13.16 (Java HotSpot(TM) 64-Bit Server VM, Java 17.0.16)
Type in expressions to have them evaluated.
Type :help for more information.
Spark context Web UI available at http://DESKTOP-9VAOBA3:4040
Spark context available as 'sc' (master = local[*], app id = local-1761139955553).
Spark session available as 'spark'.

scala>
```



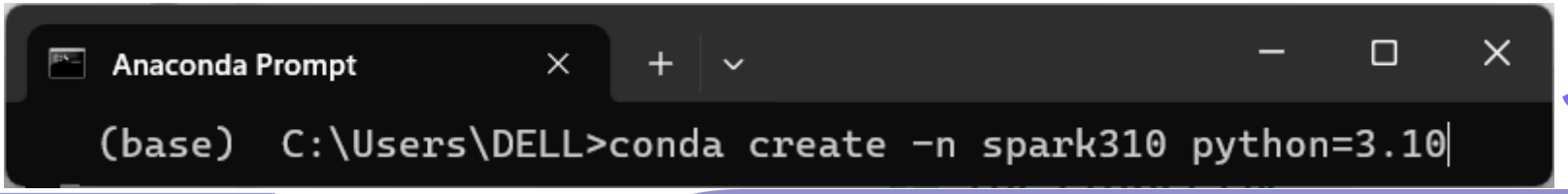
python --version



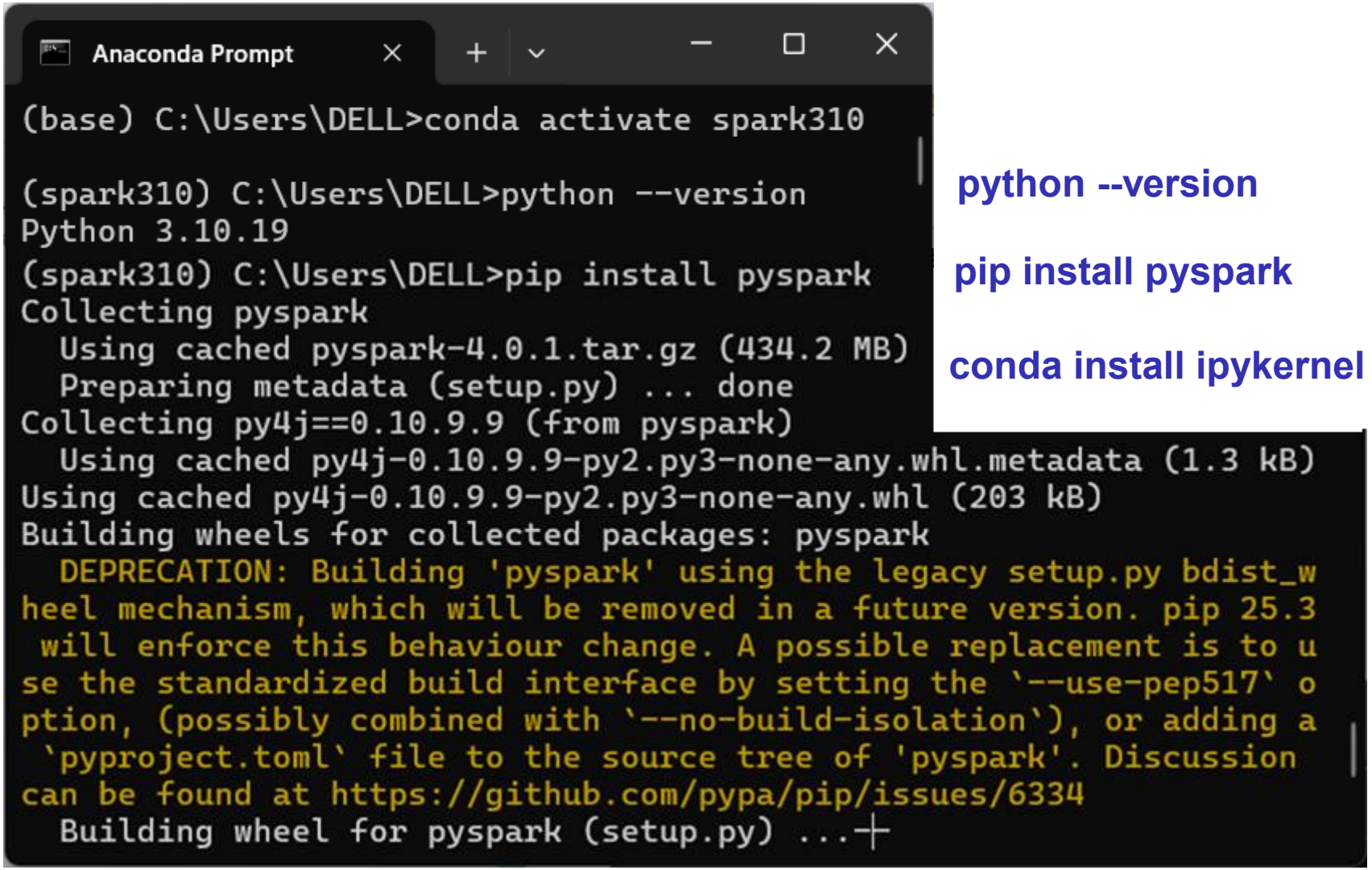
conda env list



conda create –n spark310 python=3.10



conda activate spark310



python --version

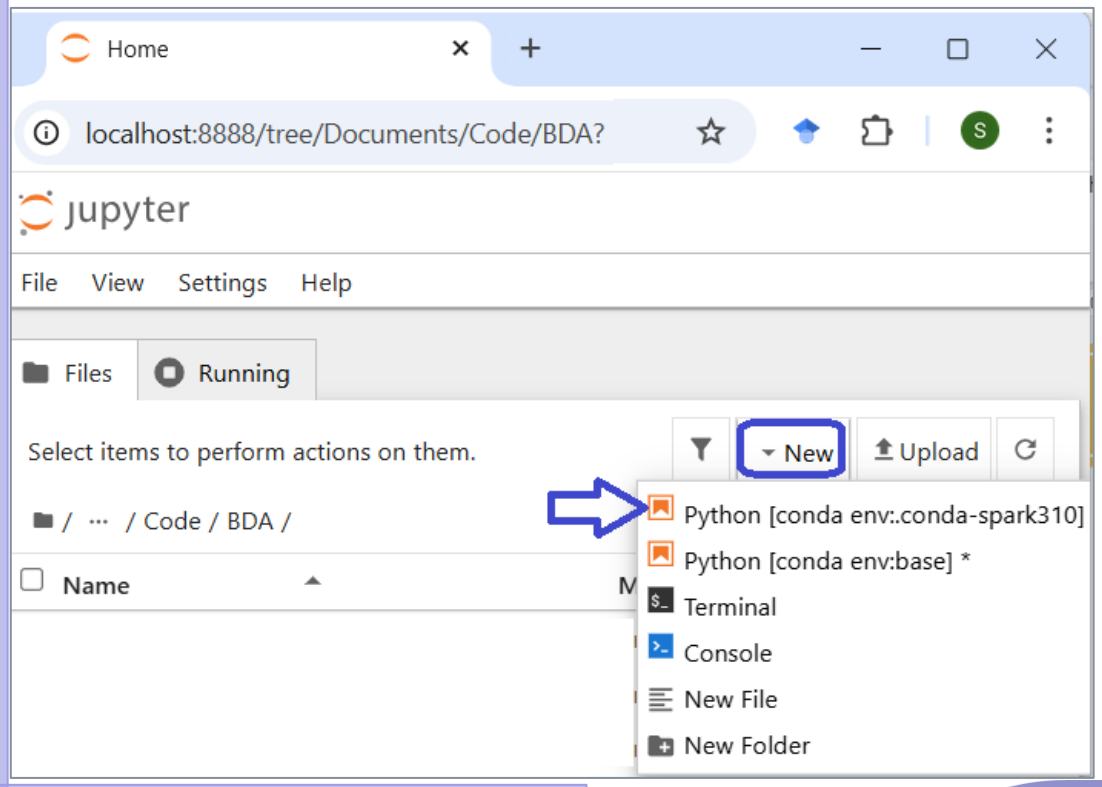
pip install pyspark

conda install ipykernel

Alternate Method to Connect

Next Page

New File



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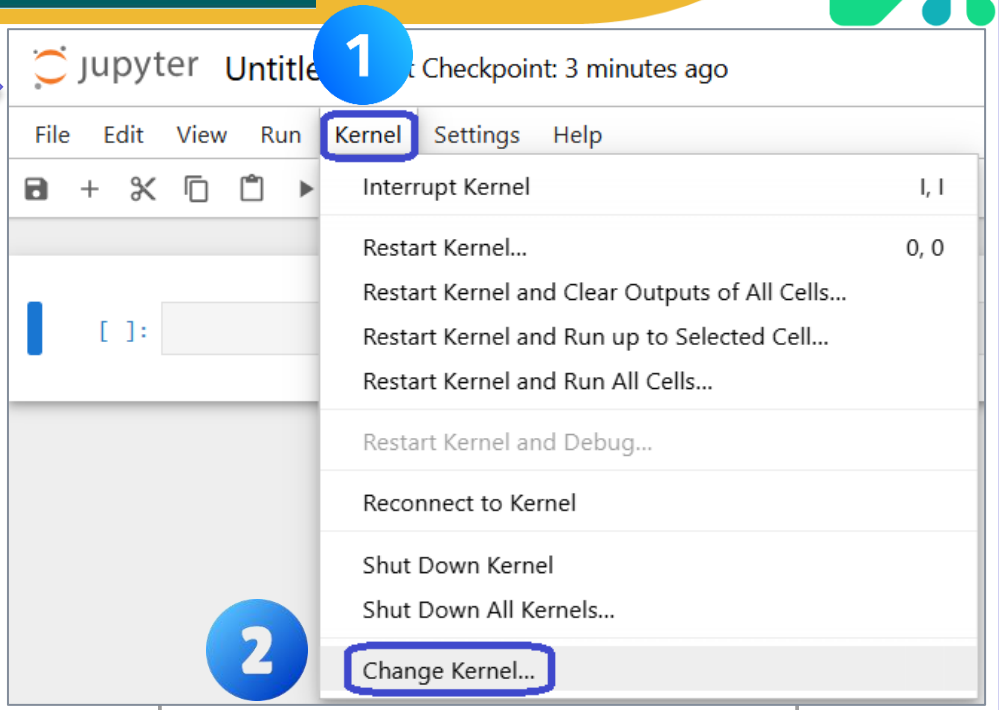
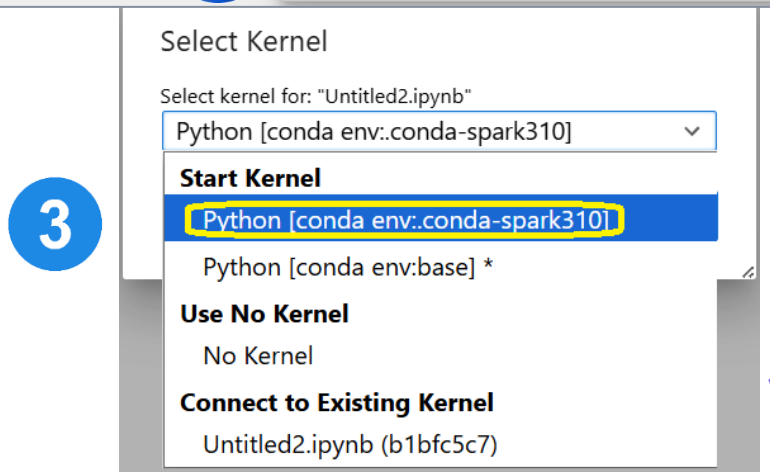
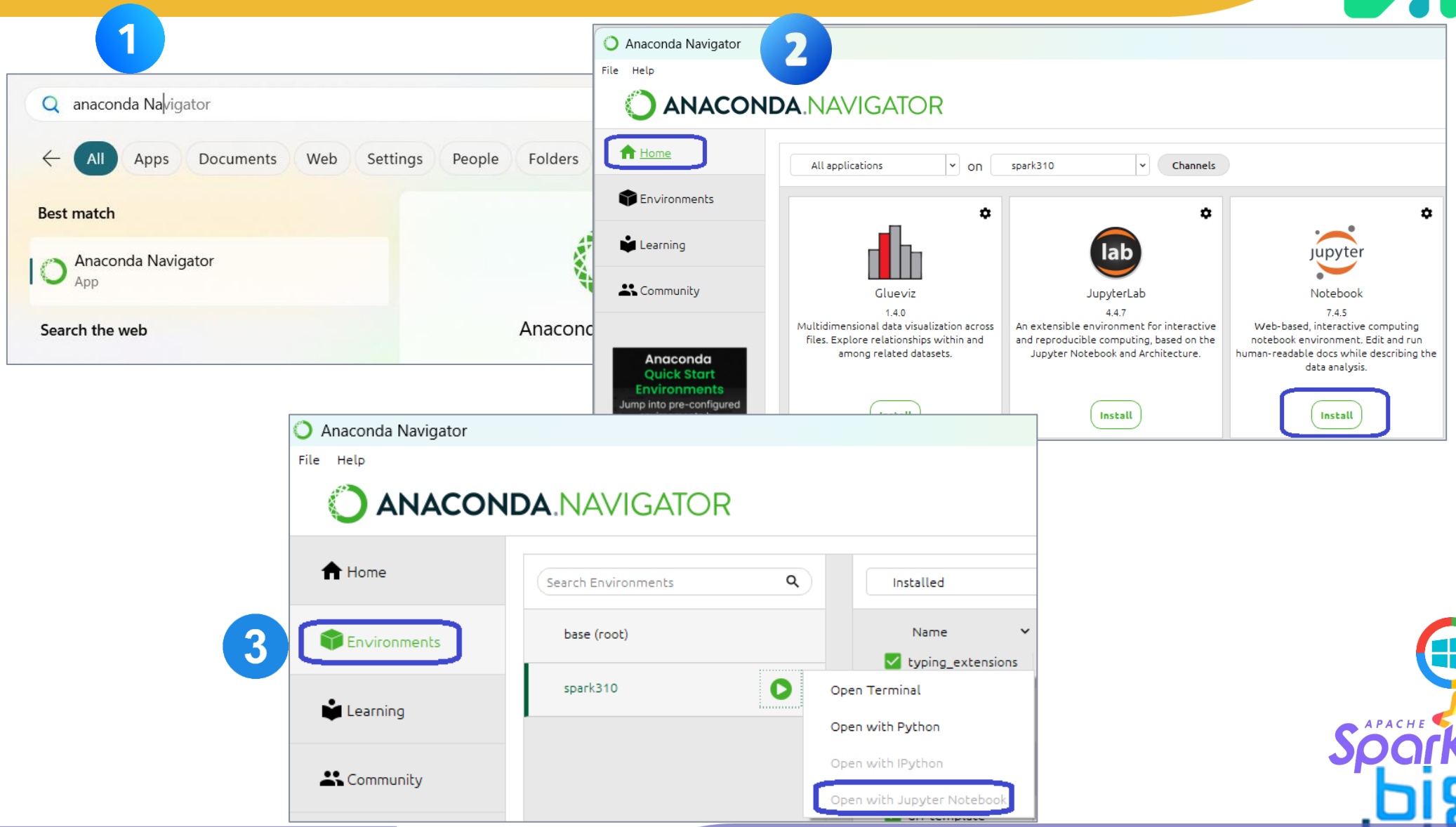




Alternate Method to Connect



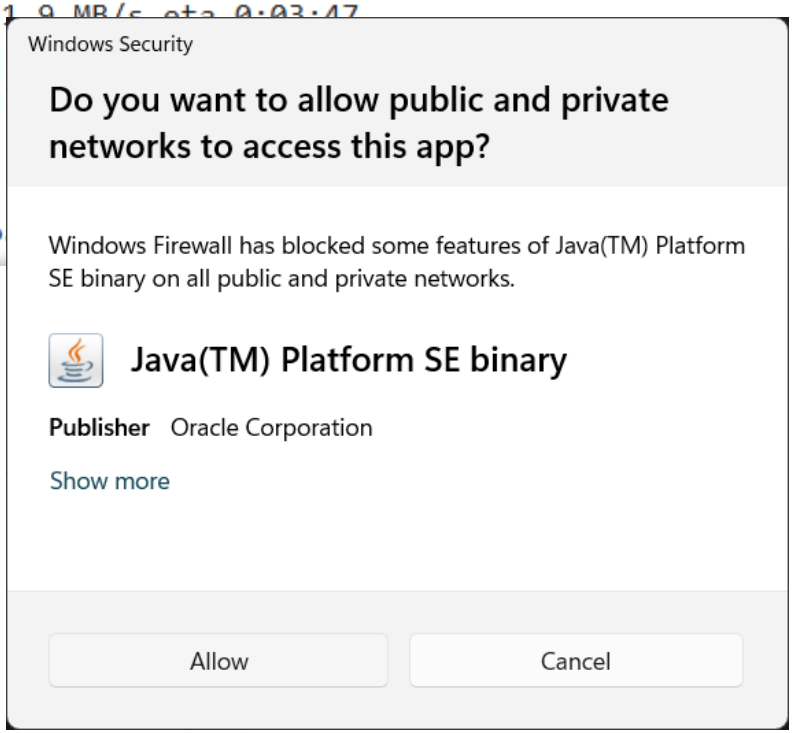
```
from pyspark.sql import SparkSession

spark = SparkSession.builder.appName('pySp0').getOrCreate()
```

```
[1]: from pyspark.sql import SparkSession

[2]: spark = SparkSession.builder.appName('pySp0').getOrCreate()

[3]: spark

[3]: SparkSession - in-memory

     SparkContext

     Spark UI

     Version          v4.0.1
     Master           local[*]
     AppName          pySp0
```

install pyspark

```
pip install pyspark
```

```
Defaulting to user installation because normal site-packages is not writeable
Collecting pyspark
  Downloading pyspark-4.0.1.tar.gz (434.2 MB)
     ---------------------------------------- 0.0/434.2 MB ? eta -:--:--
     ---------------------------------------- 0.3/434.2 MB ? eta -:--:--
     ---------------------------------------- 0.8/434.2 MB 2.3 MB/s eta 0:03:11
     ---------------------------------------- 1.0/434.2 MB 1.9 MB/s eta 0:03:47
     ------------------- -------------------- 1/2 [pyspark]
     ---------------------------------------- 2/2 [pyspark]

  Successfully installed py4j-0.10.9.9 pyspark-4.0.1
  Note: you may need to restart the kernel to use updated p
```



delete py environment

conda deactivate spark310

```
conda remove --name spark310 --all
```