Steps :

1) Login as **Administrator**

2) check **Environment variables** following environment variables should exists under system variables :

   SPARK_HOME

   JAVA_HOME

   HADOOP_HOME

3) Open **Anaconda Command Prompt** and execute following commands :

   (base) C:\Users\Administrator>**conda create -n py311_env python=3.11**

   (base) C:\Users\Administrator>**conda activate py311_env**

   (py311_env) C:\Users\Administrator>**setx PYSPARK_PYTHON "C:\Users\Administrator\anaconda3\envs\py311_env\python.exe"**

   (py311_env) C:\Users\Administrator>**setx PYSPARK_DRIVER_PYTHON "C:\Users\Administrator\anaconda3\envs\py311_env\python.exe"**

   (py311_env) C:\Users\Administrator>**pip install pyspark**

4) Open **Anaconda Navigator** change into **py311_env** environment and **install jupyter notebook**

5) Create a new notebook and run the following commands :

   A)

   import sys

   print(sys.version)

   # It should display some version of **python 3.11**

Initially it displays 3.13.5 version

Output :

3.11.13 | packaged by Anaconda, Inc. | (main, Jun 5 2025, 13:03:15) [MSC v.1929 64 bit (AMD64)]

B)

```
import os, sys

print("Python executable:", sys.executable)

print("PYSPARK_PYTHON:", os.environ.get("PYSPARK_PYTHON"))

print("PYSPARK_DRIVER_PYTHON:",
os.environ.get("PYSPARK_DRIVER_PYTHON"))
```

Output :

Python executable: C:\Users\Administrator\anaconda3\envs\py311_env\python.exe

PYSPARK_PYTHON: C:\Users\Administrator\anaconda3\envs\py311_env\python.exe

PYSPARK_DRIVER_PYTHON: C:\Users\Administrator\anaconda3\envs\py311_env\python.exe

6) Now execute the code