NAME: AKULA SHARATH CHANDRA

**BATCH: DATA ENGINEERING** 

**TOPIC: HOW TO INSTALL AND SETUP APACHE SPARK** 

DATE: 03-02-2024

## Installation of Apache Spark and Setup...

### Apache PySpark..

Apache Spark is an open-source distributed computing system that provides a fast and

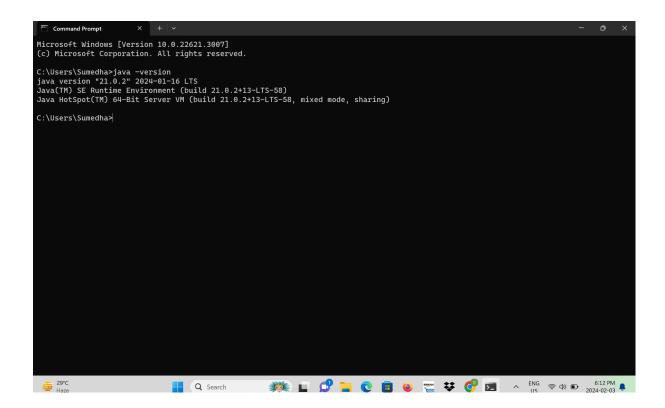
general-purpose cluster-computing framework for big data processing. PySpark is the Python

API for Apache Spark, allowing you to write Spark applications using Python.

## Python+Spark=PySpark..

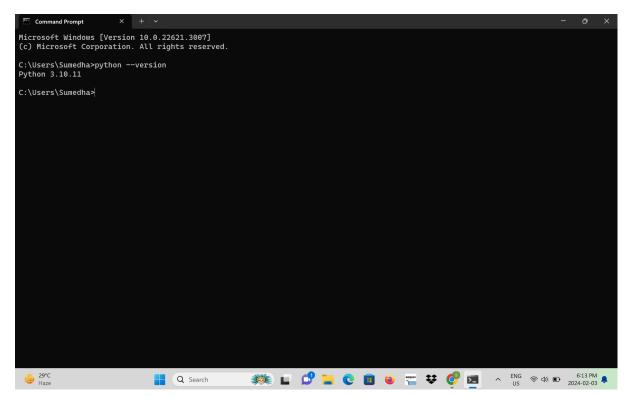
#### **Install Java**

- Firstly, we have to install a java jdk version which is compatible with your system. It's good to download and install latest standard version of java.
- After that we have to check in the command prompt by typing java -version which displays the version of java which you downloaded.
- In means that you have successfully downloaded and installed it in your system.



## **Install Python**

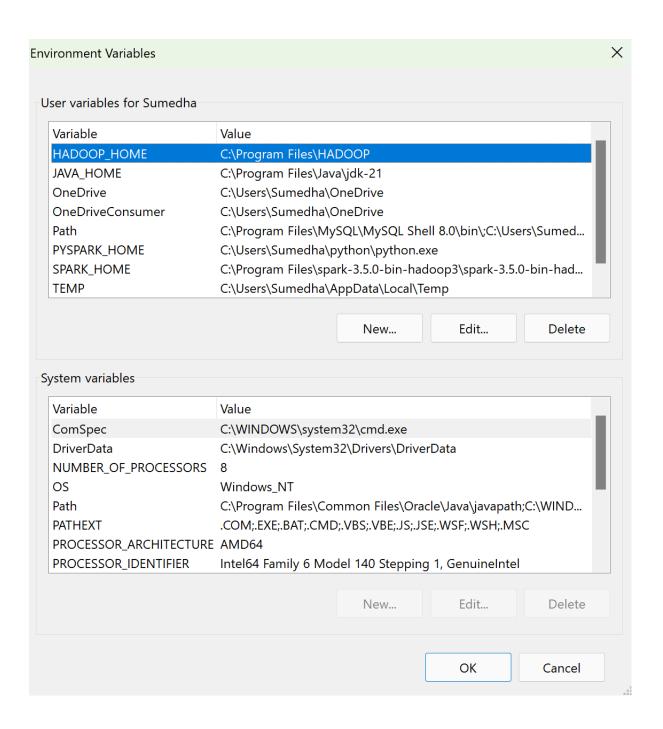
- Along with java, we have to install a python environment into our system. It's good to download and install the latest and standard version of python.
- After that we have to check the command prompt by typing python-version which displays the version of java which you downloaded.
- It means that you have successfully downloaded and installed in your system.

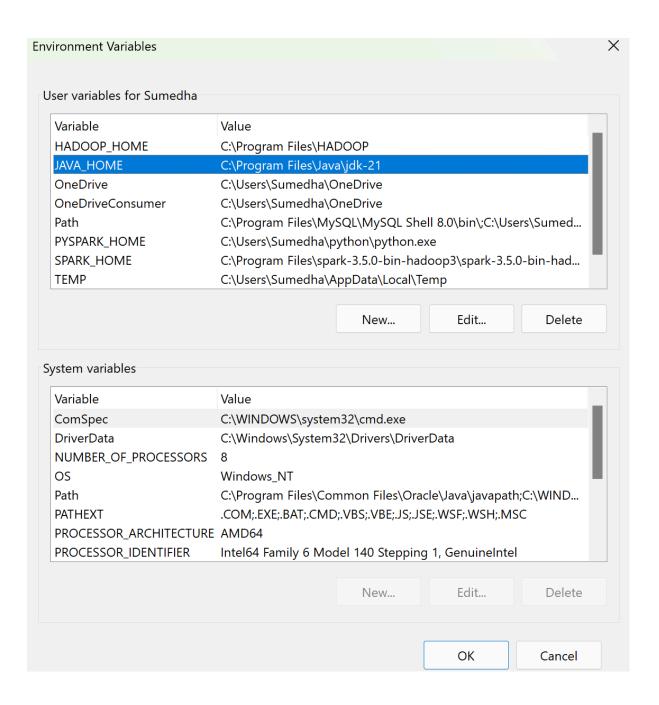


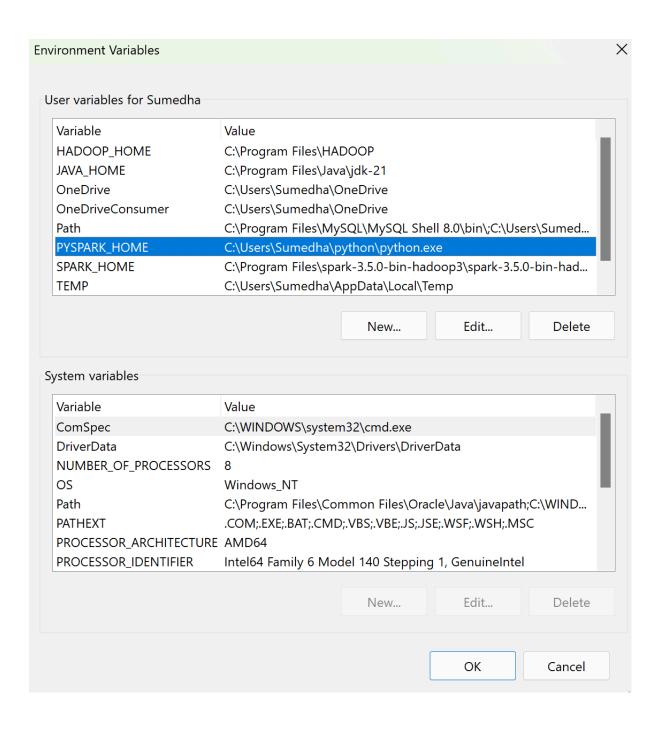
# **Install Apache Spark:**

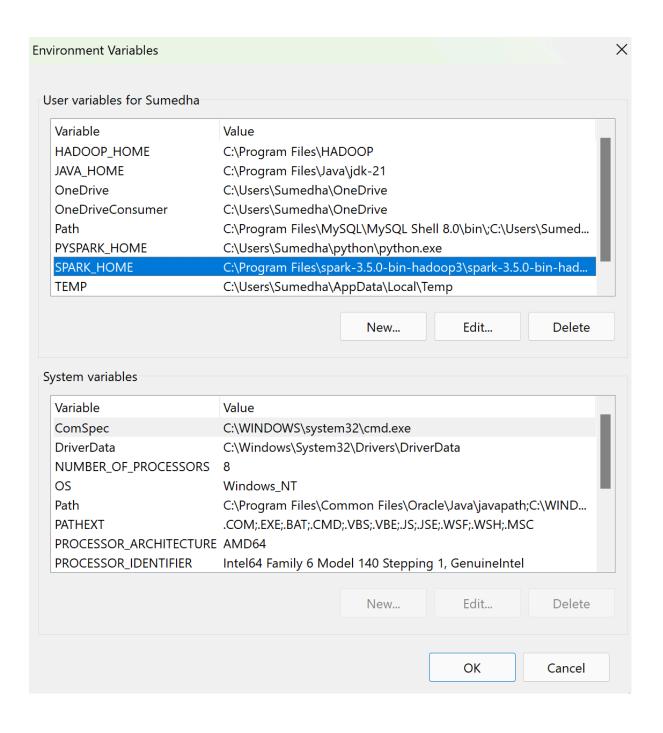
- Visit the Apache Spark download page.
- Choose the latest version of Spark and download the pre-built package for Hadoop. It will be a tarball (.tgz) file.
- Extract the downloaded tarball to a location on your machine.

### **Set Environment Variables:**

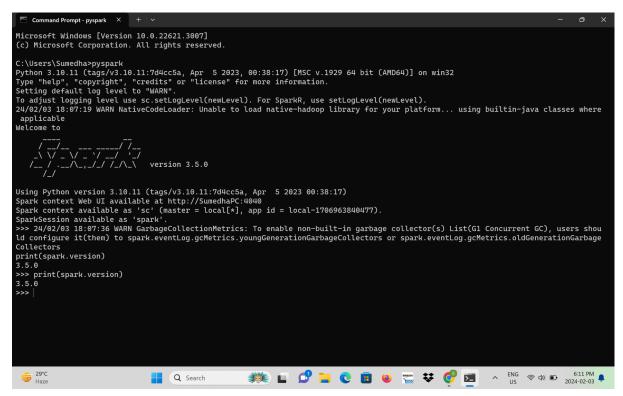








After setting up the environment variables,we need to save all of them and have to go to the command prompt and type **pyspark** as below.



- If it shows like these, you have successfully set up the Apache Spark setup.
- If http://SumedhaPC:4040 you will get the web page as follows which indicates your pyspark is installed as follows

