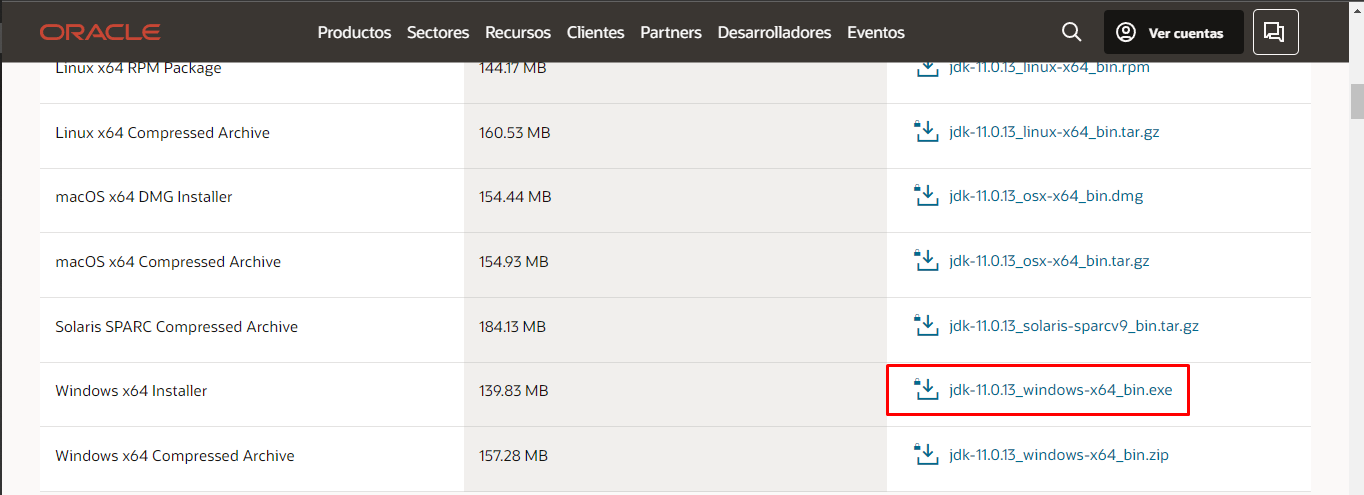
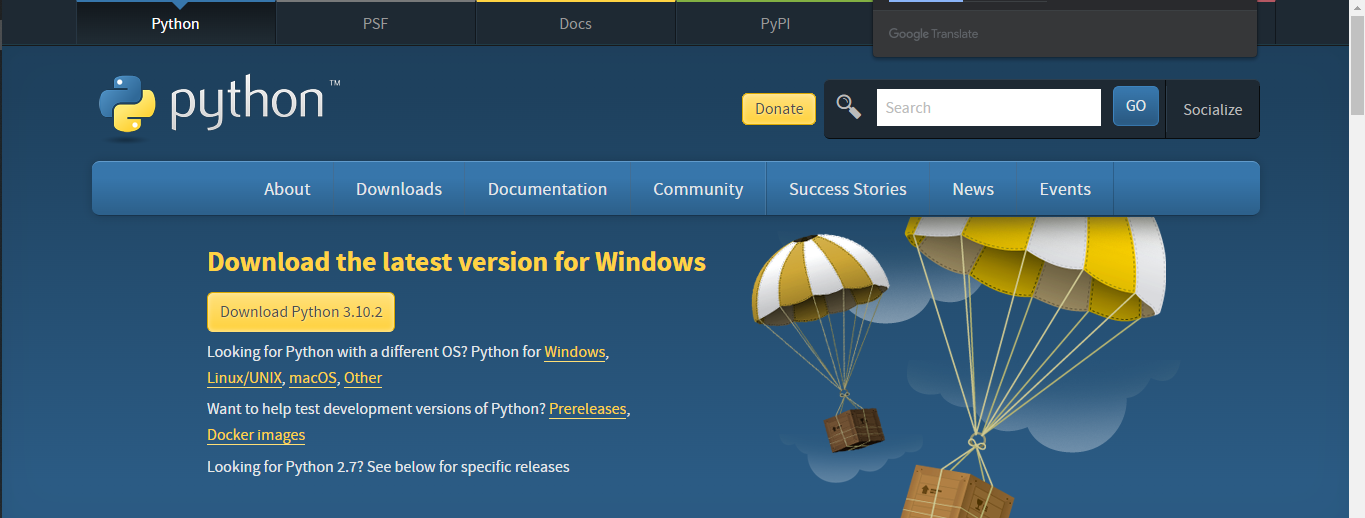
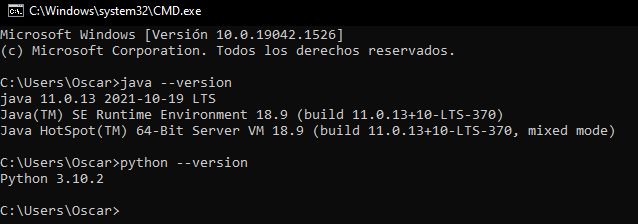
Descargar e instalar jdk:



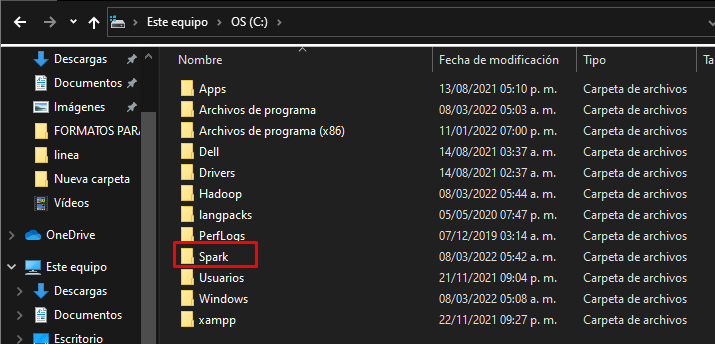
Descargar e instalar Python:



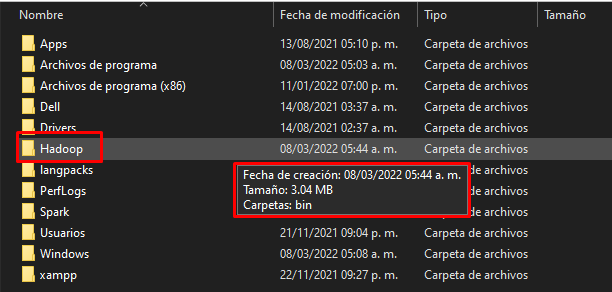
Comprobar la instalación de ambos programas:



Descargar y extraer spark en disco local C:



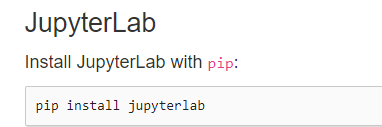
Descargar winutils y dejar en carpeta Hadoop en disco local C:



Crear variables de entorno y modificar variable PATH:

1. HADOOP\_HOME
   1. C:\Hadoop
2. JAVA\_HOME
   1. C:\Program Files\Java\jdk-11.0.13
3. PYSPARK\_DRIVER\_PYTHON
   1. jupyter
4. PYSPARK\_DRIVER\_PYTHON\_OPT
   1. Notebook
5. PYSPARK\_PYTHON
   1. Python
6. SPARK\_HOME
   1. C:\Spark\spark-3.2.1-bin-hadoop3.2
7. Variables PATH:
   1. %SPARK\_HOME%\bin
   2. %HADOOP\_HOME%\bin

Instalar Jupyter:



Ejecutar Jupyter Lab:

