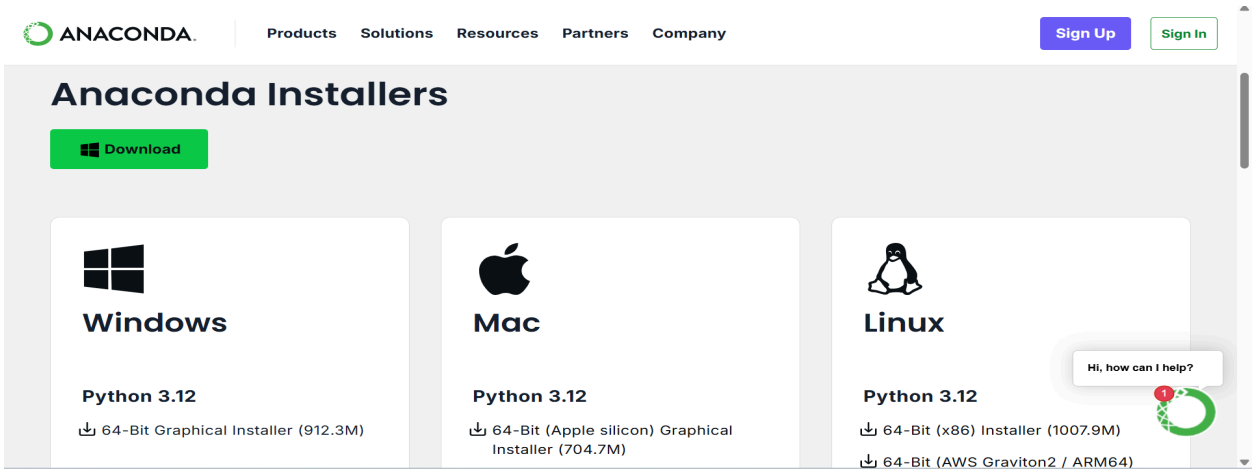
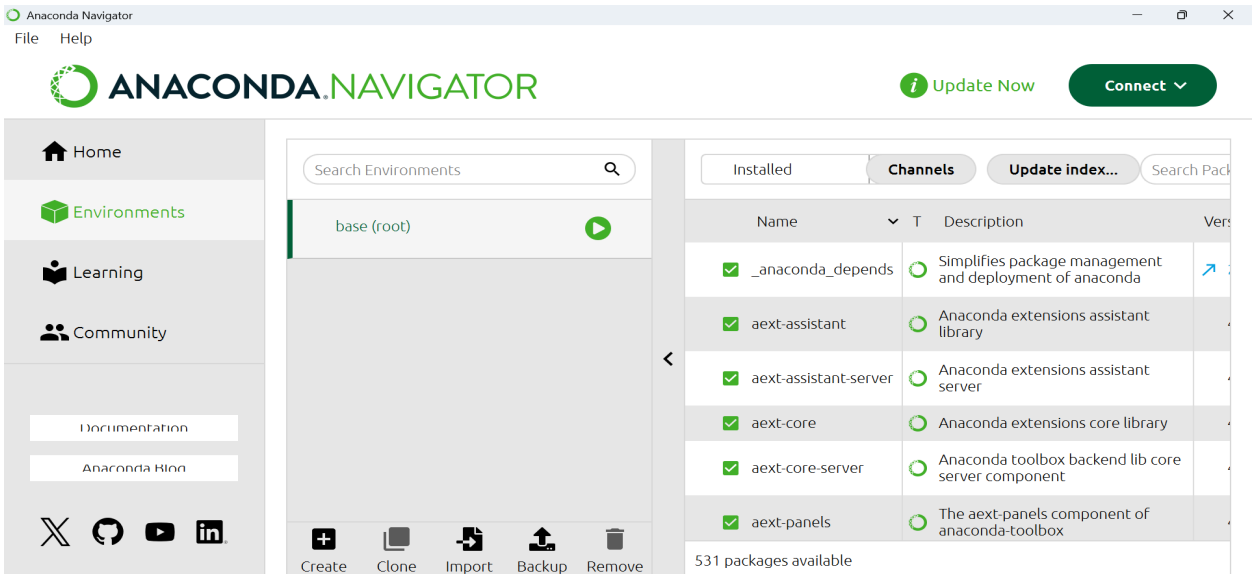
LAB# 0

Introduction and installation

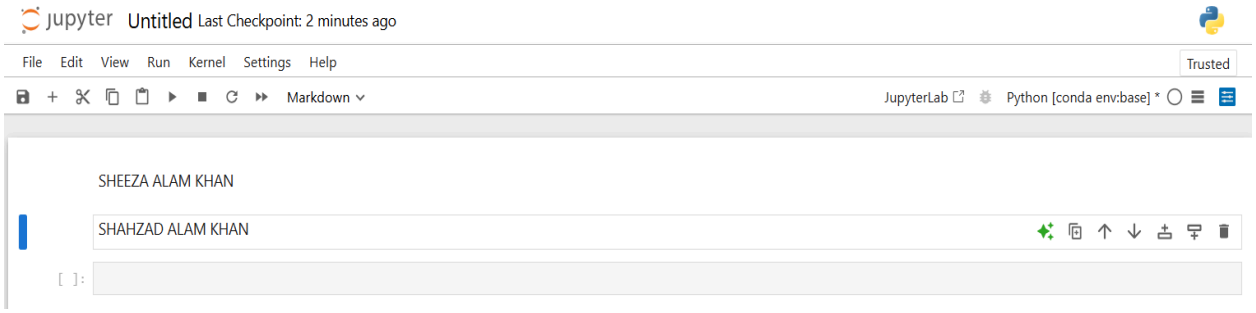
Steps for installing Anaconda Distribution

- Go to https://www.anaconda.com/download.
- Select the preferred installer based on your OS and click **Download**.
- Open the **Downloads** folder and run the installer.
- Follow the on-screen instructions, keep clicking **Next**, and install.
- You have successfully installed Anaconda. You can run it now.





Task 1: write your name and your father's name in jupyter notebook



Task 2: Anaconda Environments

What are environments in Anaconda?

An environment in Anaconda is an isolated workspace that manages dependencies, libraries, and Python versions separately, preventing conflicts between projects.

How to create an environment in Anaconda?

1. Open **Anaconda Prompt**.

Run:
conda create --name myenv python=3.9

2.
   - Replace `myenv` with your preferred name.
   - `python=3.9` is optional.

3. Activate the environment:
conda activate myenv

Why use environments?

- **Avoid Conflicts** – Different projects need different package versions.
- **Project Isolation** – Keeps dependencies separate.
- **Multiple Python Versions** – Use different versions as needed.
- **Reproducibility** – Share exact setups with `environment.yml`.
- **Clean System** – Prevents clutter and global package issues.