

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.

The image shows two screenshots. The top screenshot is the Anaconda website's 'Installers' page. It features a green 'Download' button and three main sections for Windows, Mac, and Linux, each offering a Python 3.12 installer. The Windows section has a 64-bit graphical installer (912.3M). The Mac section has a 64-bit (Apple silicon) graphical installer (704.7M). The Linux section has two options: a 64-bit (x86) installer (1007.9M) and a 64-bit (AWS Graviton2 / ARM64) installer. A chatbot bubble says 'Hi, how can I help?'. The bottom screenshot is the Anaconda Navigator application window. It has a menu bar with 'File' and 'Help'. The main interface includes a sidebar with 'Home', 'Environments', 'Learning', and 'Community'. The 'Environments' section shows a search bar and a list of environments, with 'base (root)' selected. The main panel displays a table of installed packages and channels. The table has columns for Name, Description, and Version. The packages listed are: _anaconda_depends, aext-assistant, aext-assistant-server, aext-core, aext-core-server, and aext-panels. At the bottom, it says '531 packages available'.

Anaconda Installers

Download

Windows

Python 3.12

64-Bit Graphical Installer (912.3M)

Mac

Python 3.12

64-Bit (Apple silicon) Graphical Installer (704.7M)

Linux

Python 3.12

64-Bit (x86) Installer (1007.9M)

64-Bit (AWS Graviton2 / ARM64)

Hi, how can I help?

Anaconda Navigator

File Help

ANACONDA.NAVIGATOR

Update Now Connect

Home

Environments

Learning

Community

Documentation

Anaconda Blog

Search Environments

base (root)

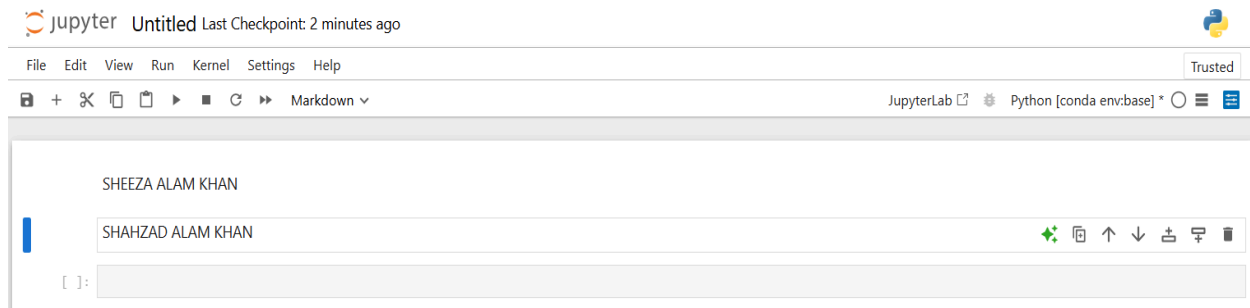
Create Clone Import Backup Remove

Installed Channels Update index... Search Packages

Name	Description	Version
_anaconda_depends	Simplifies package management and deployment of anaconda	
aext-assistant	Anaconda extensions assistant library	
aext-assistant-server	Anaconda extensions assistant server	
aext-core	Anaconda extensions core library	
aext-core-server	Anaconda toolbox backend lib core server component	
aext-panels	The aext-panels component of anaconda-toolbox	

531 packages available

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.