Practical No : 1

Aim : Study of Anaconda IDE AND It’s Installation

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Theory : **Anaconda IDE Overview**

Anaconda is not just a package manager; it's a full-featured environment that supports Python and R for data science, machine learning, and scientific computing. The primary components of Anaconda include:

- **Anaconda Navigator:** A GUI for managing packages and environments without using the command line.
- **Conda:** The package manager that installs, updates, and manages software packages.
- **Jupyter Notebook:** An interactive notebook for writing and executing code.
- **Spyder:** A powerful IDE specifically designed for scientific programming in Python.

Installation Steps

1. Download Anaconda

- Go to the Anaconda Distribution page.
- Choose the version suitable for your operating system (Windows, macOS, or Linux).

2. Install Anaconda

Windows:

- Run the downloaded .exe installer.
- Follow the setup prompts. You can choose whether to add Anaconda to your PATH (recommended only for advanced users).
- Choose to install for "Just Me" or "All Users" based on your needs.

macOS:

- Open the downloaded .pkg installer.
- Follow the instructions to complete the installation.

Linux:

- Open a terminal and navigate to the directory where the installer is located.
- Run the following command:

bash

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bash Anaconda3-2023.XX-Linux-x86_64.sh

- Follow the prompts to complete the installation.

3. Verify Installation

After installation, open a terminal (or Anaconda Prompt on Windows) and run:

bash

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conda --version