# Tutorial: Setting up Conda Environment and Running Jupyter Notebook

This tutorial guides you through downloading Anaconda, setting up a conda environment called cs5404, and running Jupyter Notebook using a requirements.txt file.

## Step 1: Download and Install Anaconda

1. Go to the official [Anaconda website](https://www.anaconda.com/download).
2. Choose your operating system (Windows, macOS, Linux).
3. Download the installer (preferably the latest **Anaconda Distribution**).
4. Run the installer and follow the on-screen instructions.
   * On Windows, check the box to “Add Anaconda to PATH” (recommended).
   * On macOS/Linux, installation will add conda to your shell.

After installation, verify conda is available:

conda --version

## Step 2: Create a Conda Environment

1. Open **Anaconda Prompt** (Windows) or terminal (macOS/Linux).
2. Create a new environment named cs5404 with Python 3.10 (it can be from 3.8-3.11):

conda create -n cs5404 python=3.10 -y

1. Activate the environment:

conda activate cs5404

## Step 3: Install Packages from requirements.txt

1. Place your requirements.txt file in a the project folder.
2. Run the following command to install dependencies:

pip install -r requirements.txt

## Step 4: Install and Launch Jupyter Notebook

1. Install Jupyter inside your environment:

conda install jupyter -y

1. Launch Jupyter Notebook:

jupyter notebook

1. This will open Jupyter Notebook in your browser. You can now create and run .ipynb notebooks.

## Step 5: Verify Installation

Inside a notebook cell, run:

import sys  
print(sys.executable)

It should show the Python executable path under your cs5404 environment.

## Summary

* Installed Anaconda
* Created conda environment cs5404
* Installed dependencies from requirements.txt
* Installed and launched Jupyter Notebook