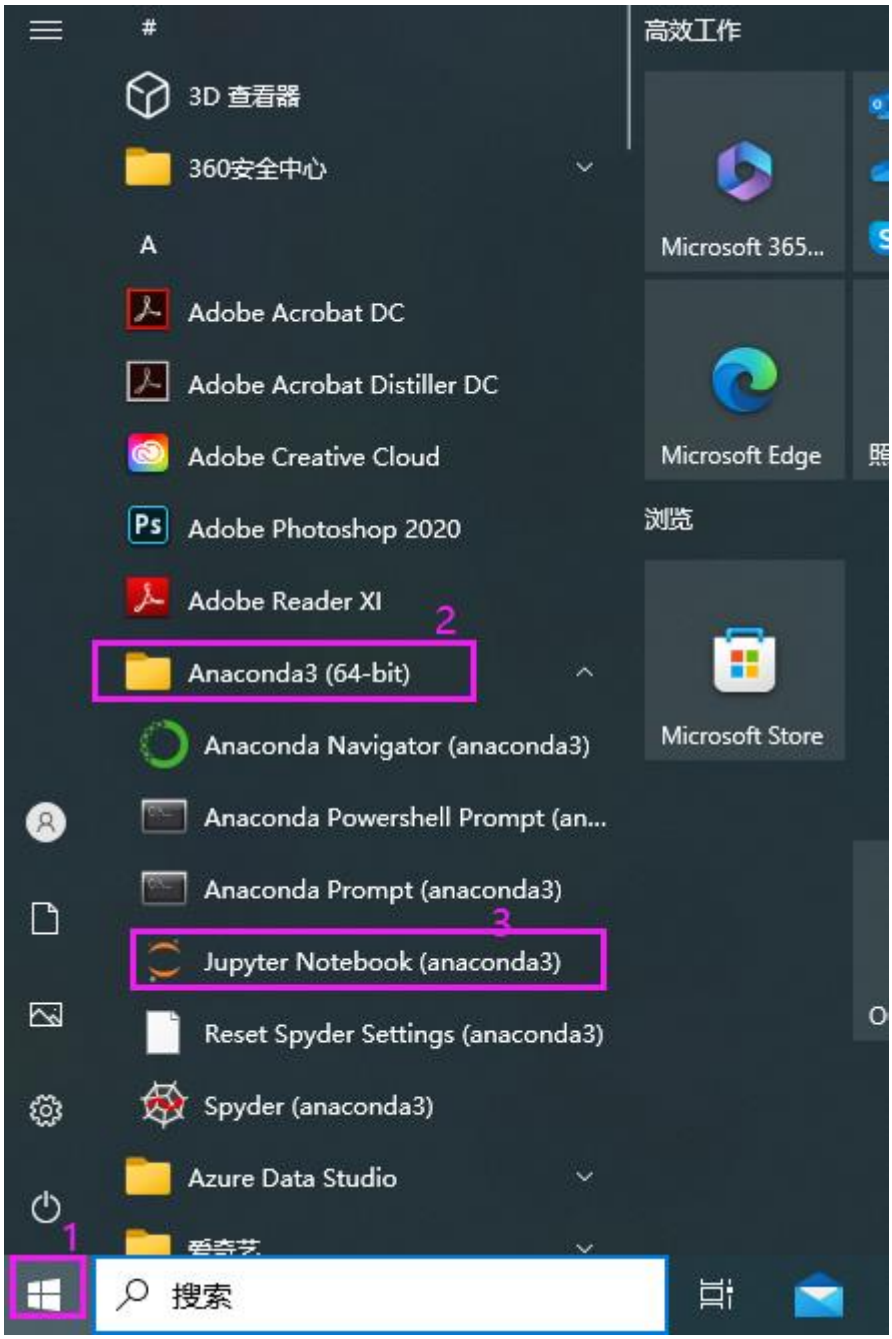
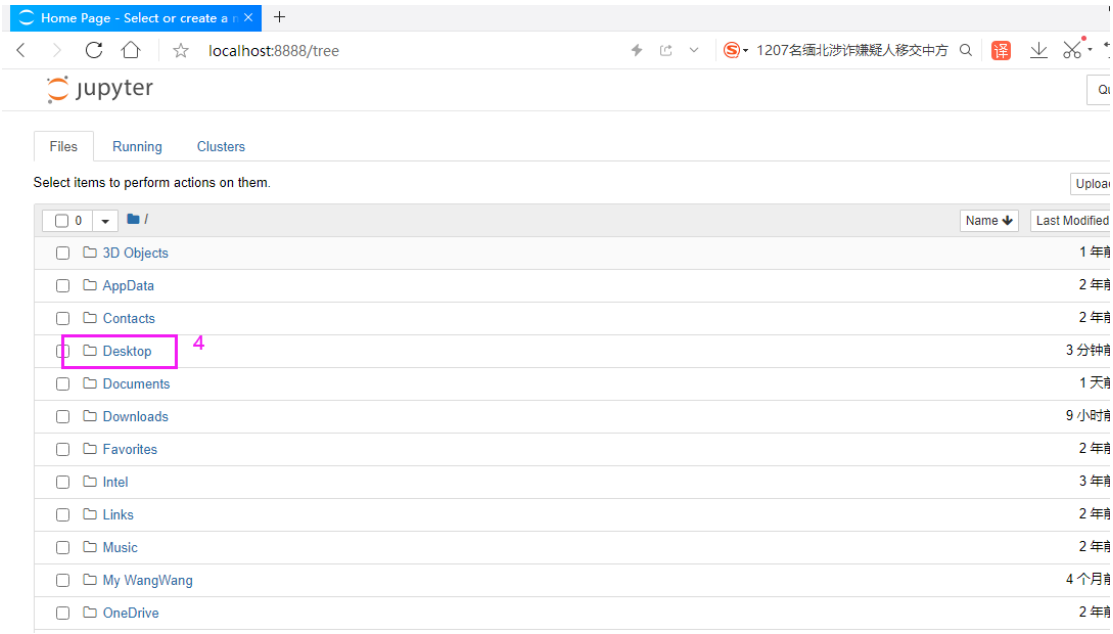
实验室已安装 Anaconda3 环境，启动步骤如下：

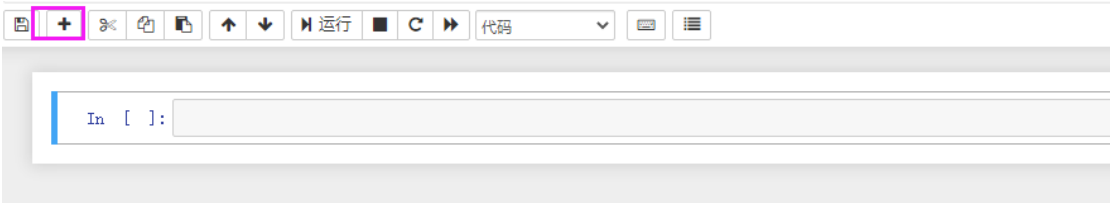


启动 jupyter Notebook

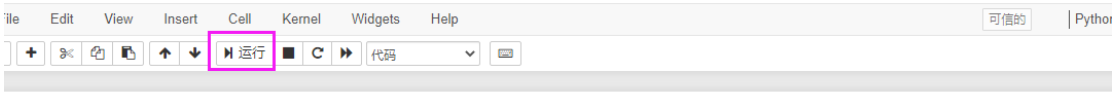


进入桌面后，新建一个 python3 代码文件（文件类型为. ipynb）

增加一个代码块



写入代码，点击运行



In [2]:

```
#基础代码##

import numpy as np
import matplotlib.pyplot as plt

# Fixing random state for reproducibility
np.random.seed(19680801)

dt = 0.01 # time step
t = np.arange(0, 30, dt)
nse1 = np.random.randn(len(t))      # 白噪音
nse2 = np.random.randn(len(t))      # 白噪音

# Two signals with a coherent part at 10Hz and a random part
#  周期信号叠加白噪音;
#  可尝试删除白噪音，检测效果。
s1 = np.sin(2 * np.pi * 10 * t) + nse1
s2 = np.sin(2 * np.pi * 10 * t) + nse2
# 绘制分图
fig, axs = plt.subplots(2, 1)
axs[0].plot(t, s1, t, s2)
axs[0].set_xlim(0, 2)
axs[0].set_xlabel('time')
axs[0].set_ylabel('s1 and s2') # 须改变名称
axs[0].grid(True)

cxy, f = axs[1].cohere(s1, s2, 256, 1. / dt)
axs[1].set_ylabel('coherence')

fig.tight_layout()
plt.show()
#########
```