**Simulating Parallel Processing**

In a Terminal window, the command to install the DASK library locally was executed:

**pip install dask**

A screenshot of a computer screen

Description automatically generated

The Terminal was opened and the **dask-scheduler** was run.

A screenshot of a computer

Description automatically generated

The address for the **dask-scheduler** was noted. Two additional Anaconda command prompts were opened, and two **dask-worker** processes were started. The address of the **dask-scheduler** was passed to each of the **dask-worker** processes during their execution.

Two screenshots were provided to confirm that both **dask-worker** processes were started successfully, and the correct address for the **dask-scheduler** was passed.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A Jupyter Notebook was created to simulate a client program with complex computation. The necessary DASK libraries were imported into the Jupyter Notebook using the provided code.

A screenshot of a computer

Description automatically generated

The code to create a 50,000 by 50,000 matrix of random numbers in DASK was completed. The mean was computed and the value was assigned to the **y** variable.

A screenshot of a computer

Description automatically generated

A DASK client was created, passing the address of the **dask-scheduler**. The **compute** function was called on the **y** variable, instructing DASK to execute the command.

A screenshot of a computer

Description automatically generated