

Notes:

Make sure that CUDA is installed and working. For more information check: Module 7.10  
Installing and running CUDA

Make sure that python is installed. To install python using Anaconda

<https://docs.anaconda.com/anaconda/install/windows/>

After installing Anaconda, check that Jupyter notebook is working properly.

Make sure that Numba is installed. To install using Conda, type:

```
conda install cudatoolkit
```

If you are not using Conda or if you want to use a different version of CUDA toolkit, check here:

<https://numba.pydata.org/numba-doc/latest/cuda/overview.html>

### Exercises

1. Review the code Numa\_example.ipynb in Jupyter notebook
2. Similar to the given example, write a python code with Numba to add two 1D lists

Since it is a 1D array, you need to use single dimension instead of 2 Dimension

Solution: Numba\_exercise.ipynb

- In this work, the 2D needs to be changed to 1D.
- Lists should be 1D
- Memory allocation should be for 1D
- For blockspergrid, blockspergrid\_y is not required
- In the kernel, cud.grid(1) should be used to get thread id
- Add only the x dimension