Prerequisites:   
1. Linux or wsl or macOS

2. Conda installed on linux or wsl or macOS

* 1. Run the following command to install Miniforge

$ wget -O Miniforge3.sh "https://github.com/conda-forge/miniforge/releases/latest/download/Miniforge3-$(uname)-$(uname -m).sh"

$ bash Miniforge3.sh -b -p "${HOME}/conda"

$ source "${HOME}/conda/etc/profile.d/conda.sh"

$ source "${HOME}/conda/etc/profile.d/mamba.sh"

$ conda init

* 1. Close and open a new WSL terminal

3. Internet connection

1. Git clone from https://github.com/bhagirathi-hegde/ray-talk
2. Setup environment
   1. Create and activate a new conda environment

conda env create -c conda-forge python==3.11.0 -n ray-workshop

* 1. pip install -r requirements.txt

1. Run non ray script on local single processor
2. Bring up a local cluster
   1. Ray start –head
   2. Ray status
   3. Browse ray dashboard
   4. Run the given script
   5. See jobs, trace etc in dashboard
3. Modify script to use local ray cluster
   1. ray.init()
   2. Decorate function with ray.remote(num\_cpus=1, name=”<your\_name>”)
   3. Async invocation of tasks with predict.remote(image\_batch)
   4. Collect results with ray.get(results) (blocks until all tasks complete)
4. Start ray worker (1 VM) and attach it to already running cluster (speaker to demo it)
5. Connect to remote cluster
   1. Modify script to ensure that it connects to ray cluster with ray.init(ray://<ray\_head\_public\_ip>:10001)
   2. Run code on ray client

Python3 <script.py>

1. Ray serve [optional] - prepare material - simple prediction post request through command line - action item for Sarath