## Cuda Code Practical:

System installation commands:

- 1. sudo apt update
- 2. sudo apt install nvidia-cuda-toolkit
- 3. Ispci | grep -i nvidia
- 4. nvidia-smi
- 5. sudo ubuntu-drivers autoinstall
- 6. sudo reboot
- 7. nvidia-smi

## If Successfully installed this output appear:

comp701@comp701-System-Product-Name:~/BEA26\$ nvidia-smi Sat Apr 26 10:20:03 2025 I NVIDIA-SMI 470.182.03 Driver Version: 470.182.03 CUDA Version: 11.4 |-----+ | GPU Name Persistence-M| Bus-Id Disp.A | Volatile Uncorr. ECC | | Fan Temp Perf Pwr:Usage/Cap| Memory-Usage | GPU-Util Compute M. | | | MIG M. | | 0 NVIDIA GeForce ... Off | 00000000:01:00.0 N/A | N/A | | N/A 52C P8 N/A / N/A | 145MiB / 1993MiB | N/A Default | N/A | | Processes: GPU Memory | GPU GI CI PID Type Process name ID ID Usage | No running processes found

## Code:

- 1. gedit filename.cu
- 2. nvcc filename.cu -o filename
- 3. ./filename