**Pemrosesan Paralel**



**Disusun Oleh :**

**Kelompok 1**

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Tiara Oktarina (09011182126028)

**Kelas :** SK 5B Indralaya

**Dosen Pengampu :** AHMAD HERYANTO, S.KOM, M.T.

ADI HERMANSYAH, S.KOM., M.T.

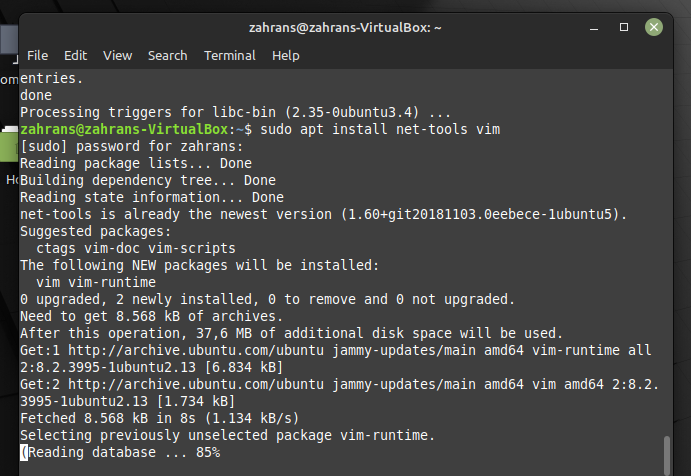
**JURUSAN SISTEM KOMPUTER**

**FAKULTAS ILMU KOMPUTER**

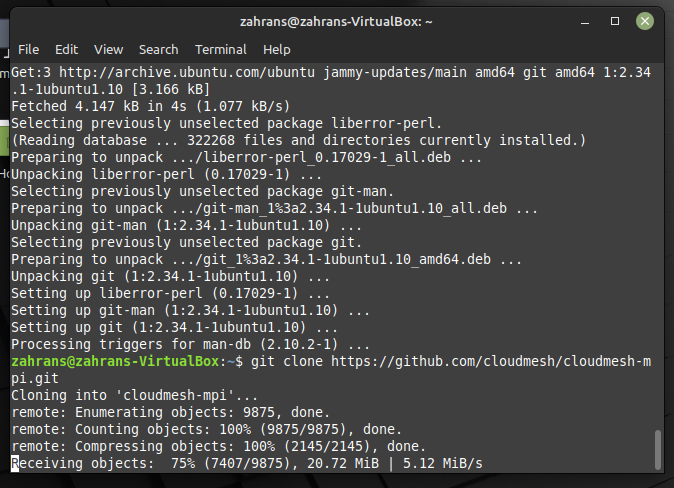
**UNIVERSITAS SRIWIJAYA**

**2023**

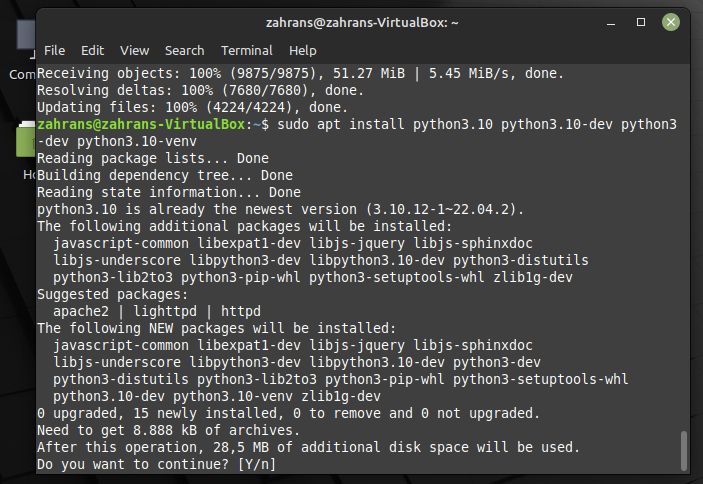
Install net-tools untuk cek IP, vim untuk teks editor.



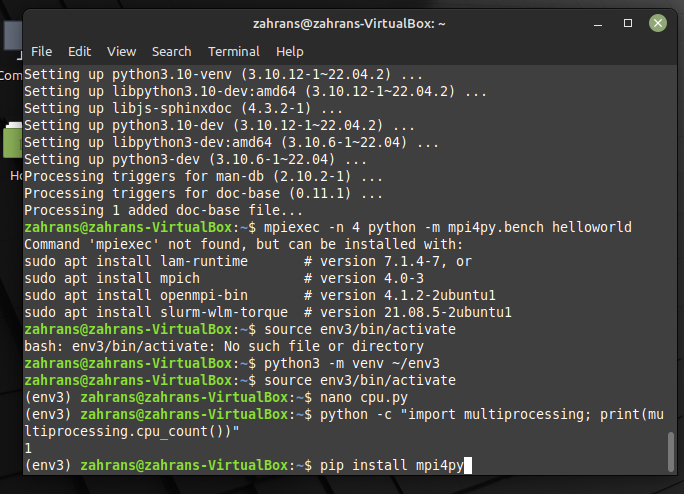
Salin kode cloudmesh-mpi dari github ke linux

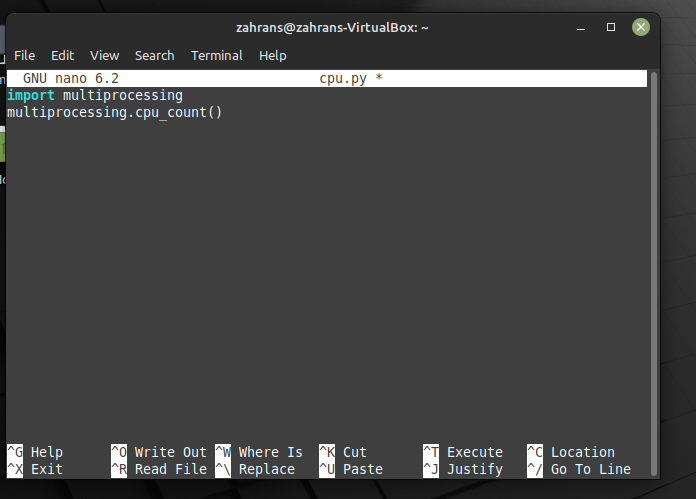


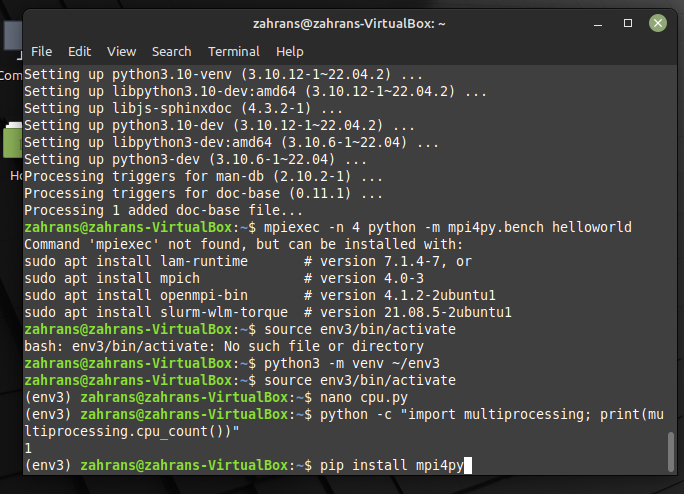
Kemudian install virtual environment pada linux



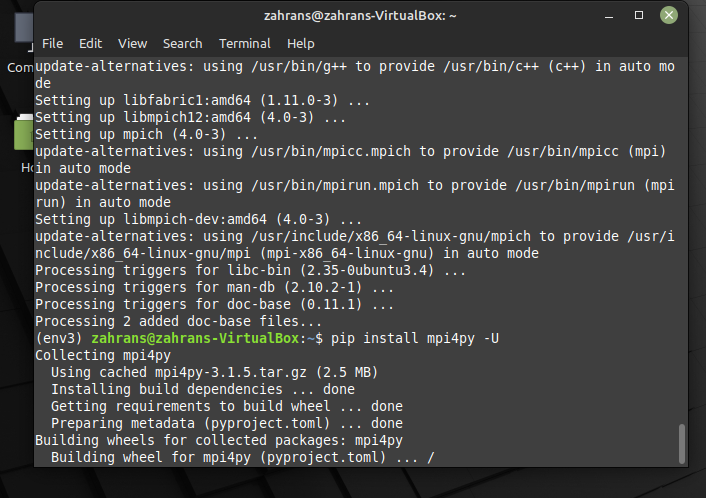
Lalu membuat virtual environment nya dan menghitung jumlah cpu



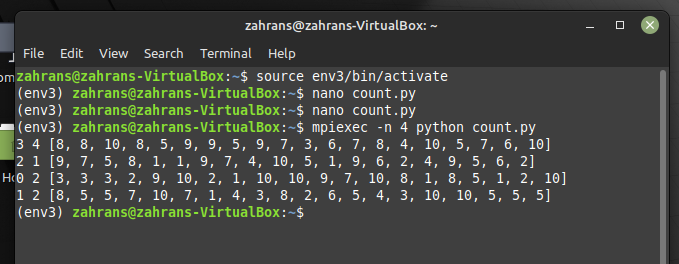




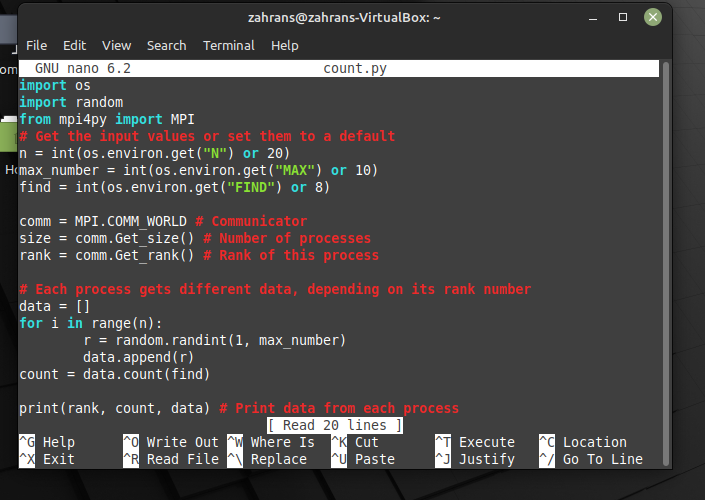
Setelah itu install mpi4py



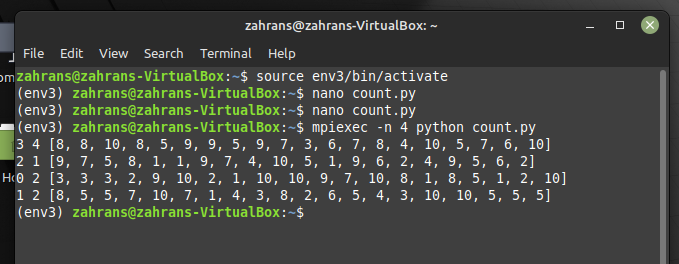
Buat file count.py



Isi dari file count.py

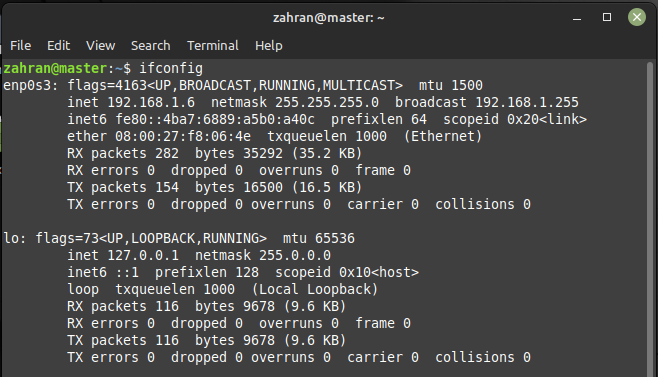


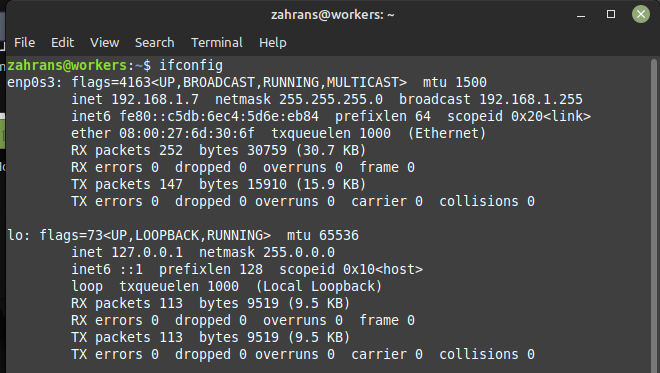
Hasil dari perhitungan



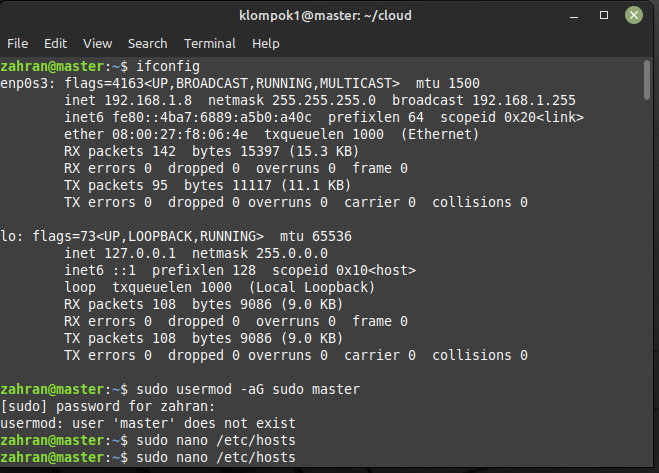
**MPI**

Cek IP Pada Server dan Client

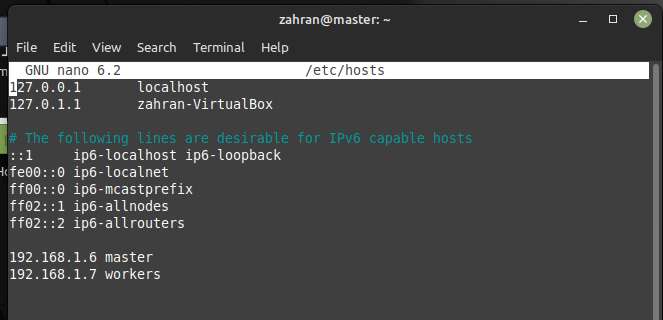




Buka file /etc/hosts



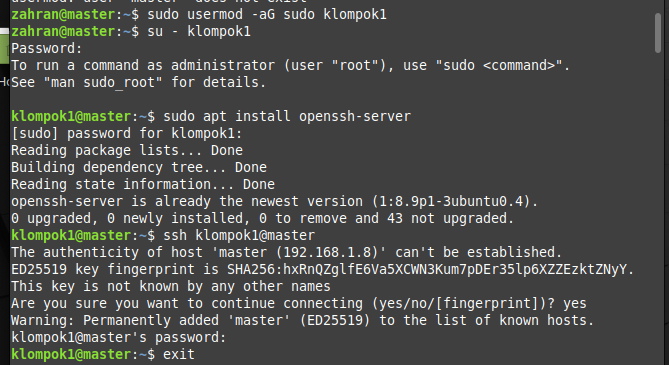
tambahkan isinya dengan IP Server dan Client



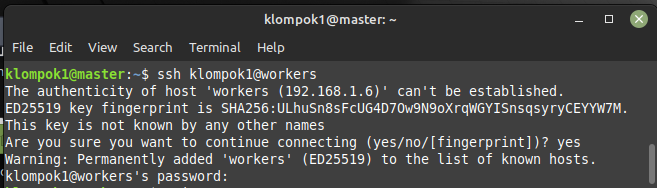
Buat user baru di Server dan Client



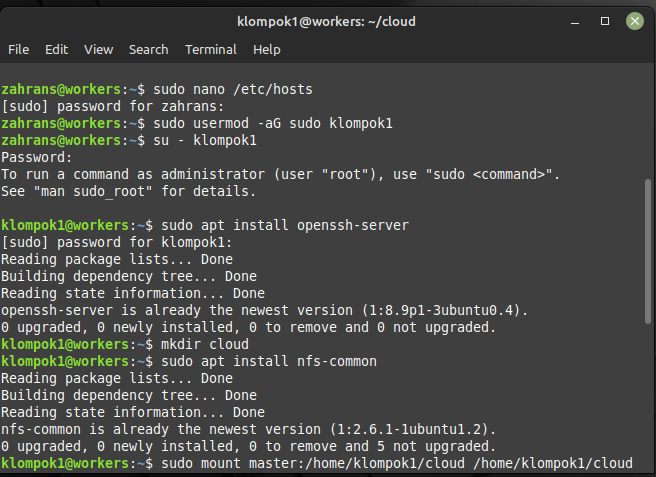
Beri akses root dan masuk ke user kemudian install ssh



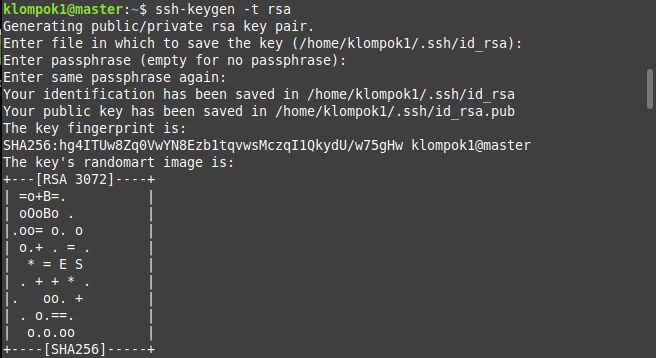
Hubungkan Server dan Client



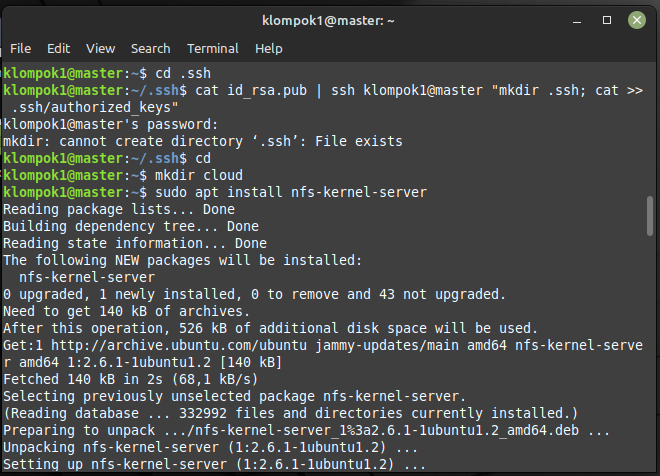
Lakukan hal yang sama pada worker



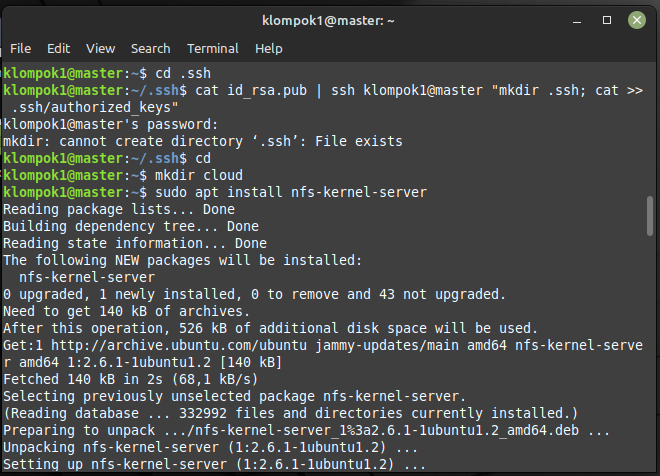
Generate keygen pada server

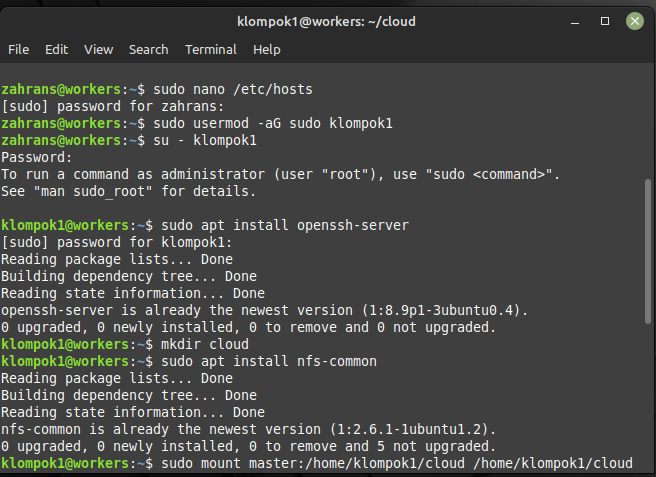


Copy key pulik ke client pada server kemudian buat shared folder dan install NFS Server



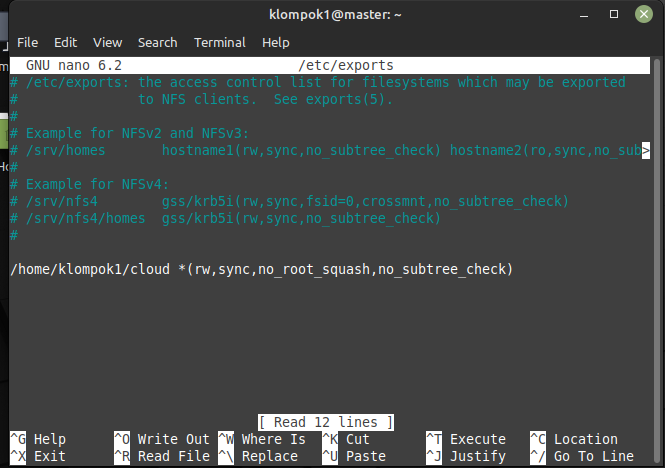
Buat shared folder pada Server dan Client serta lakukan install NFS Server pada Server



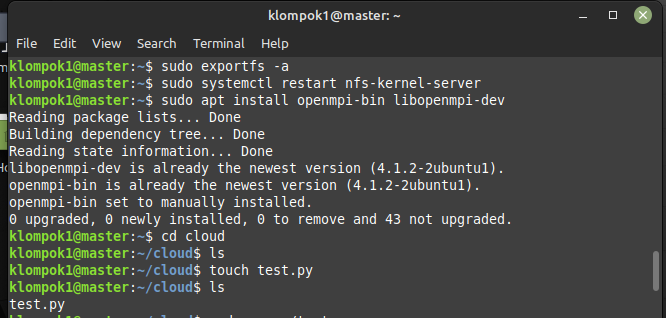


Konfigurasi file /etc/exports pada server

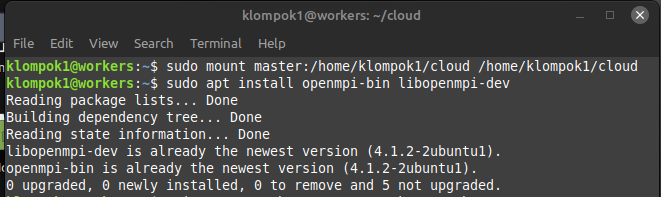




Selanjutnya ketikan perintah berikut



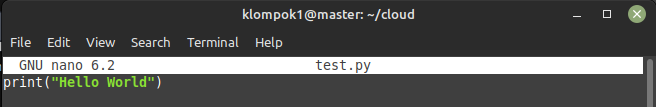
Mounting pada Client lalu install MPI pada Server dan Client



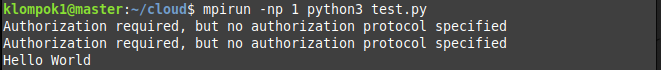
Lakukan testing di server Buat file touch.py



Edit barisnya dengan print(“Hello World”)

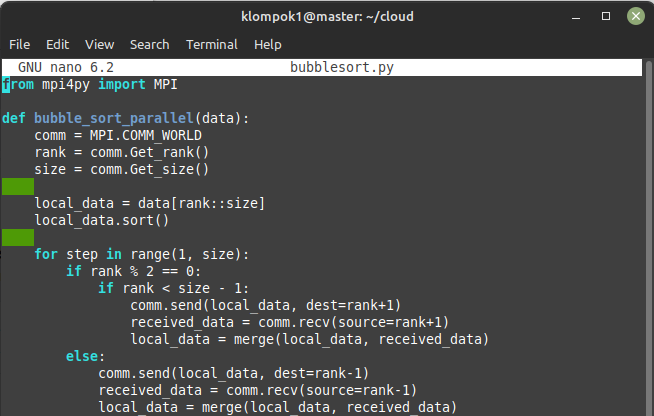


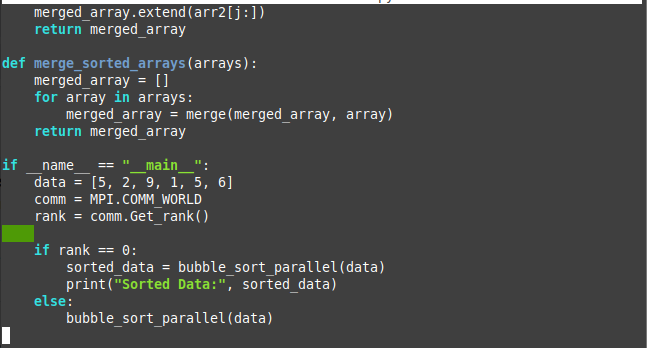
Jalankan file menggunakan MPI

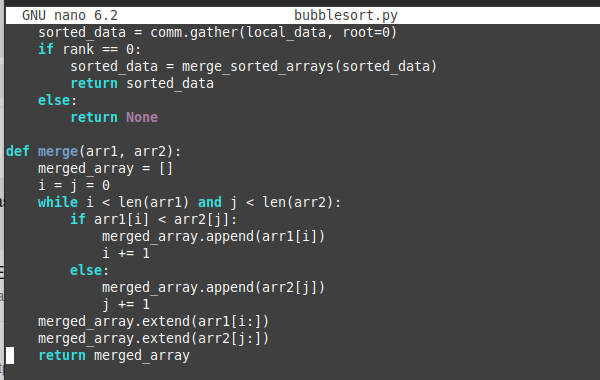


Buat file bubblesort.py

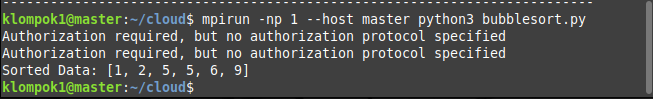


Mengisi file dengan kode berikut





Jalankan file bubblesort.py Menggunakan MPI

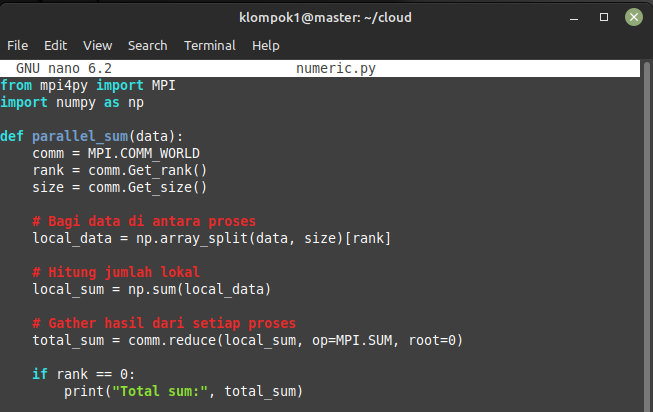


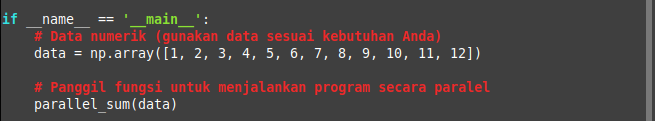
Membuat file numeric.py





Mengisi File dengan kode berikut





Jalankan file numeric.py Menggunakan MPI

