

Practical Work 3: MPI File Transfer

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Implementation

Files: lima_transfero.py

Environment: default python3 on Ubuntu 20.04

Usage: mpirun -n 4 python3 lima_trasfero.py

```
import mpi4py.MPI as MPI

if __name__ == '__main__':
    comm = MPI.COMM_WORLD
    rank = comm.Get_rank()

    if rank == 0:
        filepath = 'init/secured_document.txt'
        with open(filepath, 'rb') as file:
            data = file.read()
            comm.send(data, dest=1, tag=42)
    elif rank == 1:
        data = comm.recv(source=0, tag=42)
        filepath = 'dest/secured_document.txt'
        with open(filepath, 'wb') as file:
            file.write(data)
```