# Observations from Implementing the Master-Worker RPC System

1. Handling Worker Failures

- If one worker process crashes, the master still works and returns some partial results. - A warning message is displayed when a worker is unavailable. This makes the user aware that not all the workers are available.

2. Load Balancing Strategy

- The master distributes the queries based on the first letter of the name of the location.

- Queries for locations and years are directed to both workers always to be on the safe side.

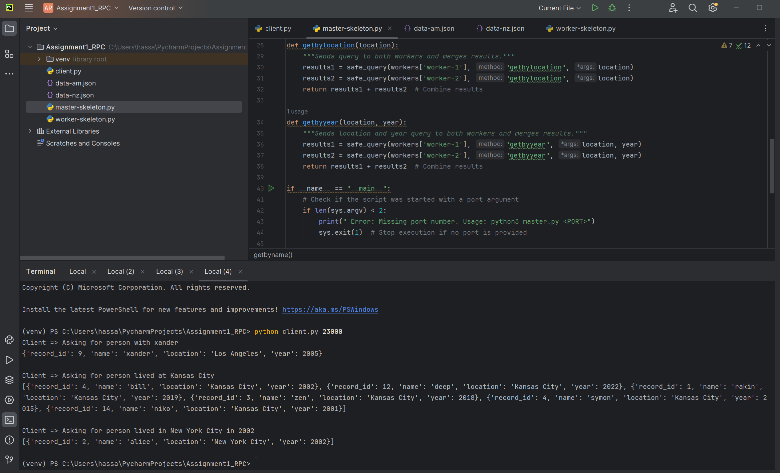
3. Error Handling Improvements

- The system no longer crashes if it receives invalid inputs (e.g., empty names, incorrect year format). - The master now returns user friendly error messages instead of crashing the entire application.

4. Lessons Learned

- The use of safe\_query() was able to prevent crashes when a worker was down.

- It is effective when all processes are started in the right order.

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