Assignment – Multi Threading and Multi Processing

1. Define what Global Interpreter Lock (GIL) is
   1. Why Python has the Global Interpreter Lock
   2. What problem does it solve?
   3. What are the alternatives to GIL
2. Explain the main difference between the Thread Pool and Thread Pool Executor
3. Understand the solution implemented in the Thread Pool Executor class and implement a similar solution using the Thread Pool class.