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Sub: Computer Algorithm

Assignment 3

Observation:

- In distributed memory, message passing interfaces (MPIs) facilitate communication between multiple computers running parallel programs.
 - Parallel computing involves multiple computers - or even multiple processor cores within the same computer - called nodes.
 - It is common for each node of the parallel arrangement to focus on a specific portion of the overall computing problem.
 - In this case, the task is to synchronize the actions of all parallel nodes, exchange data between nodes, and provide command and control over all of the parallel nodes.
 - There is a standard suite of functions for these tasks in the message passing interface. By definition, message passing is the act of sending a message to an object, parallel process, subroutine, function, or thread, which then starts another process.
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1. Here in given example we have is one head office and different branches
 2. Every branch send data to head office everyday and they receive calculated data from head office
 3. But using MPI we can do this sending and receiving process parallely which will be more efficient.
 4. One branch sends the data that is to be calculated and the head office sends the calculated amount with tax to the branch.
 5. So we can observe that there are two times when sending and receiving is going on.