**Report**

1. **How long it took your app to finish the job when using 1 thread?**

**Answer:** 0.421 seconds

1. **How many threads can your machine run simultaneously?**

**Answer:** Each core can have up to two threads. Since my device has a quad-core processor, it can run up to eight threads simultaneously.

1. **How long does it take your app to finish the job when using all available threads?**

**Answer:** 0.522 seconds

1. **Did you use task or data parallelization for this program? Why?**

**Answer:** This program uses data parallelization because the required computation could quickly be done on a single thread. To virtually simulate the amount of time it would take to run at different number of threads, the task would be split into virtually created threads that each take on a part of the computation and return the sum of those results. Based on multiple testing, using less threads are much quicker than splitting up the computation into multiple threads due to the fact that the OS would have to manage less threads whereas with multithreading, the OS needs to pay attention to all the threads simultaneously.