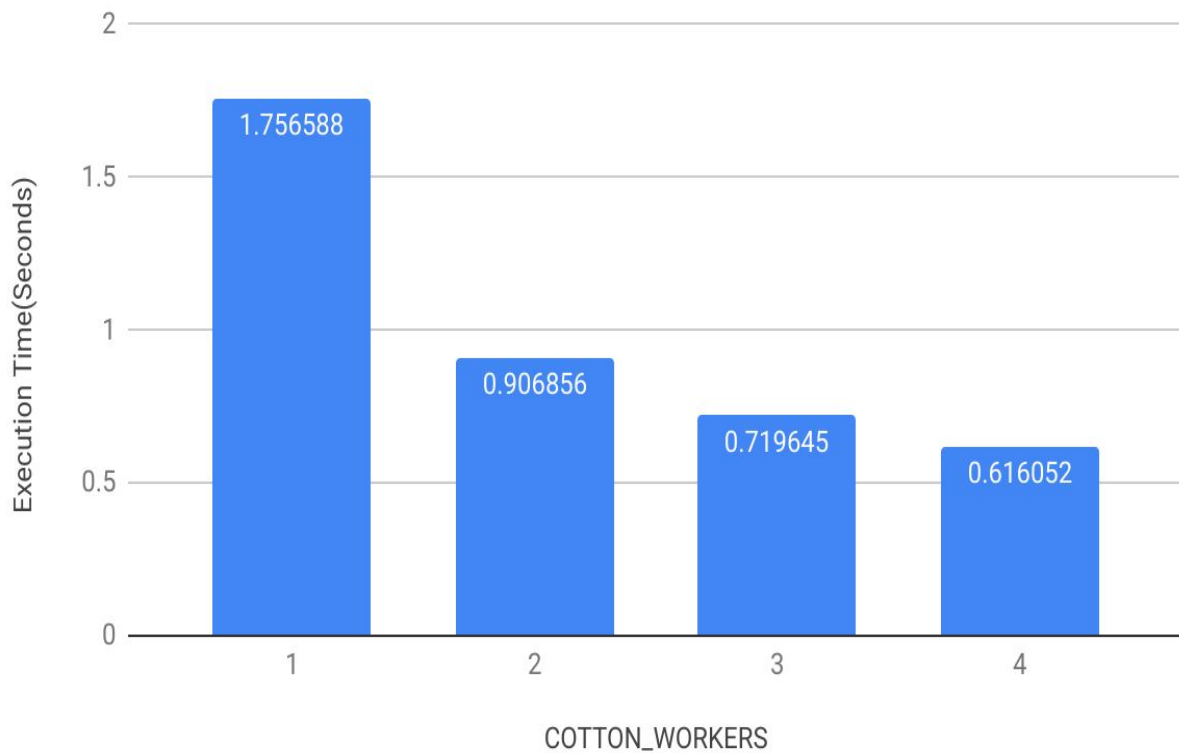# Assignment 2

Ashish Jain & Sarosh Hasan
(MT18052 & MT18084)

COTTON: A light-weight work-stealing runtime for async-finish parallelism

a)
1. **Execution Time on COTTON_WORKERS(threads) 1,2,3,4.**
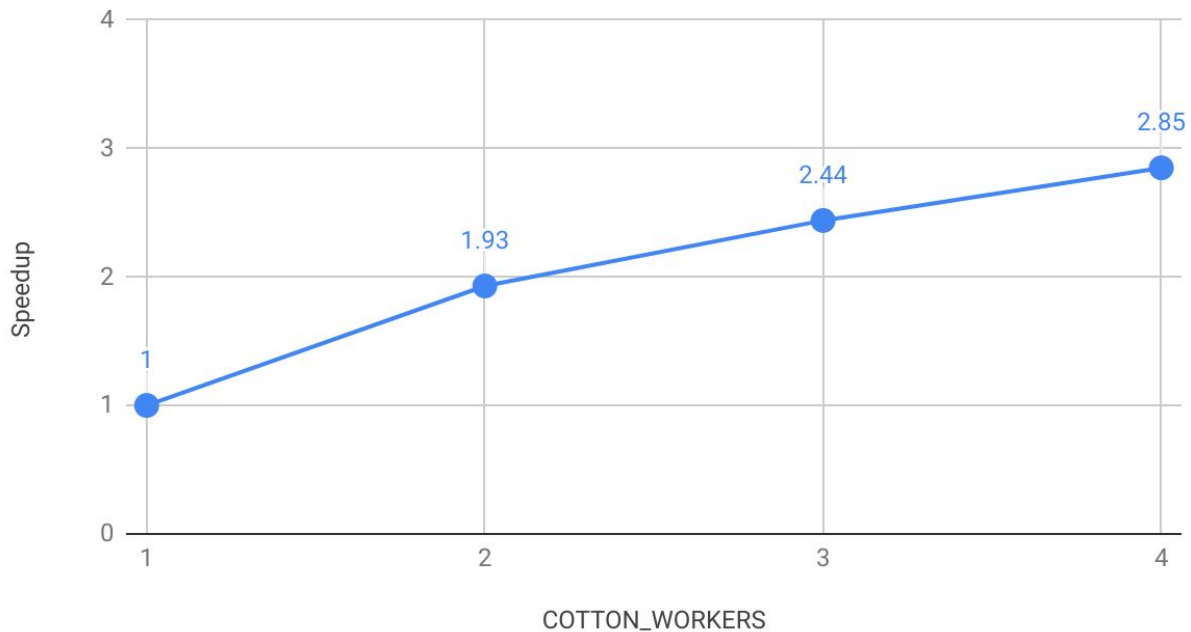
Execution Time(Seconds) vs. COTTON_WORKERS

The Execution time decreases as the number of threads increases.

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2. Speed Up vs COTTON_WORKERS

Speedup vs. COTTON_WORKERS

On 4 threads the speedup is maximum and on 1 thread(main thread) speedup is minimum.

The COTTON Runtime performance(speedup) is increasing with the increase in the number of threads.

b) Individual contribution -
We discussed everything and prepare a structure for program flow and divide our work as --

Sarosh Hasan - implementing thread pool
Ashish Jain - implementing task pool (Deque and its access)

And then merge the two modules and debug error together.