Part A

Steps

1. **Run the code directly and see the output**

The required result is obtained after directly running the file, it is evident from the results that parallelization helps with running the program at a lower time, in fact, it reduces the time by a huge factor in running the code using parallelization.

```
for 1 terms without threads : 180084 ns
for 1 terms with threads : 20083 ns

for 10 terms without threads : 16958 ns
for 10 terms with threads : 6360334 ns

for 100 terms without threads : 419416 ns
for 100 terms with threads : 548223583 ns

for 1000 terms without threads : 7970959 ns
```

We can see the output in the above screenshot.
For the 1000 terms with threads, it takes a lot of time to get printed. But it does if you leave it running for sometime.