

Time calculation

Hadoop (in java) -

```
long st  = new Date().getTime();  
long et = new Date().getTime();  
double est_t = (et - st)/1000.0;
```

Spark (in python)

```
start_time = time.time()  
print("Time taken --- %s seconds ---" % (time.time() - start_time))
```

	task2	task3
Hadoop	23.173 s	22.269 s
Spark	5.206 s	4.847 s