Arithmetic Operation: summing up all numbers from 1 to 10000000 (100 million).

JavaScript:

```
sum_i=0^100 = 5000000050000000
Doing arithmetic adding for 100000000 times took 666.985 milliseconds.
Example of Javascript arithmetic.
```

Java:

```
LiuZhimengs-MacBook-Pro:HW5 YvaineLiu$ time java SpeedTestInt
a = 987459712
100000000 iterations, 41 milliseconds ==> 0 ns/iteration

real 0m0.114s
user 0m0.095s
sys 0m0.018s
```

• Python:

```
LiuZhimengs-MacBook-Pro: HW5 YvaineLiu$ time python3 arithTest.py
500000050000000
100000000 iterations, 11356.333 milliseconds 113.56333 ns/iteration
real
        0m11.416s
user
        0m11.364s
        0m0.020s
LiuZhimengs-MacBook-Pro: HW5 YvaineLiu$ time python3 arithTest.py
5000000050000000
100000000 iterations, 12243.227 milliseconds 122.43227 ns/iteration
        0m12.276s
real
        0m12.260s
user
sys
        0m0.009s
```

· Conclusion:

By running 100 million iterations of pure arithmetic operations, it turns out that JavaScript is slower than Java but still much faster than Python. I know that JS is also an interpreted language like Python, but I guess it might have retained some of Java's features when running large numbers of logic/iterations.

More specifically, when the number of iterations is large enough, it took Java a little more than 0.1s to run, but it took JavaScript about 0.67s, which is about 60 times slower than Java. For Python, 100 million iterations took more than 12s, which is 120 times slower than Java, and about 20 times slower than JavaScript.