0.1 Scheduling conf settings

```
// # of Process
numprocess 2 or 5 or 10

// mean deivation
meandev 2000

// standard deviation
standdev 0

// process     # I/O blocking
process 500
process 500
(more if we set numprocess to 5 or 10)

// duration of the simulation in milliseconds
runtime 10000
```

0.2 Two processes

0.2.1 Summary Results

```
Scheduling Type: Batch (Nonpreemptive)
Scheduling Name: First-Come First-Served
Simulation Run Time: 4000
Mean: 2000
Standard Deviation: 0
```

Process#	CPU Time	IO Blocking	CPU Completed	CPU Blocked
0	2000 (ms)	500 (ms)	2000 (ms)	3 times
1	2000 (ms)	500 (ms)	2000 (ms)	3 times

0.2.2 Summary Processes

```
Process: 0 registered... (2000 500 0 0)
Process: 0 I/O blocked... (2000 500 500 500)
Process: 1 registered... (2000 500 0 0)
Process: 1 I/O blocked... (2000 500 500 500)
Process: 0 registered... (2000 500 500 500)
Process: 0 I/O blocked... (2000 500 1000 1000)
Process: 1 registered... (2000 500 500 500)
Process: 1 I/O blocked... (2000 500 1000 1000)
Process: 0 registered... (2000 500 1000 1000)
Process: 0 I/O blocked... (2000 500 1500 1500)
```

```
Process :   1   r e g i s t e r e d  . . .   (2000   500   1000   1000)
Process :   1   I/O   blocked . . .   (2000   500   1500   1500)
Process :   0   r e g i s t e r e d  . . .   (2000   500   1500   1500)
Process :   0   completed . . .   (2000   500   2000   2000)
Process :   1   r e g i s t e r e d  . . .   (2000   500   1500   1500)
Process :   1   completed . . .   (2000   500   2000   2000)
```

0.2.3   Comments

Scheduling type was Batch since I did not change it in SchedulingAlgorithm.java file

Scheduling Name was First-Come First-Served since this is what what we use as described in README for this laboratory

Simulation Run time is 4000 ms and NOT 10000 ms since the simulation finished before it exceeded this max time

Mean is 2000 since this is a value I set in conf value according to laboratory task description, same with standard deviation equal to 0 and CPU Time equal to 2000 ms

IO Blocking is equal to 500 ms, this is a value which we specified in configuration file and since we did not exceeded the runtime parameter it stayed equal to 500 ms

CPU completed is equal to 2000 since this is deviation we set in configuration settings and the runtime was not exceeded

All processes blocked 3 times, analysing summary processes we can see that they blocked at 500 ms, 1000 ms and 1500 ms and at 2000 seconds they completed

0.3   Five processes

0.3.1 Summary Results

Scheduling Type: Batch (Nonpreemptive)
Scheduling Name: First−Come First−Served
Simulation Run Time: 10000
Mean: 2000
Standard Deviation: 0

Process#	CPU Time	IO Blocking	CPU Completed	CPU Blocked
0	2000 (ms)	500 (ms)	2000 (ms)	3 times
1	2000 (ms)	500 (ms)	2000 (ms)	3 times
2	2000 (ms)	500 (ms)	2000 (ms)	3 times
3	2000 (ms)	500 (ms)	2000 (ms)	3 times
4	2000 (ms)	500 (ms)	2000 (ms)	3 times

0.3.2 Summary Processes

```
Process: 0 registered... (2000 500 0 0)
Process: 0 I/O blocked... (2000 500 500 500)
Process: 1 registered... (2000 500 0 0)
Process: 1 I/O blocked... (2000 500 500 500)
Process: 0 registered... (2000 500 500 500)
Process: 0 I/O blocked... (2000 500 1000 1000)
Process: 1 registered... (2000 500 500 500)
Process: 1 I/O blocked... (2000 500 1000 1000)
Process: 0 registered... (2000 500 1000 1000)
Process: 0 I/O blocked... (2000 500 1500 1500)
Process: 1 registered... (2000 500 1000 1000)
Process: 1 I/O blocked... (2000 500 1500 1500)
Process: 0 registered... (2000 500 1500 1500)
Process: 0 completed... (2000 500 2000 2000)
Process: 1 registered... (2000 500 1500 1500)
Process: 1 completed... (2000 500 2000 2000)
Process: 2 registered... (2000 500 0 0)
Process: 2 I/O blocked... (2000 500 500 500)
Process: 3 registered... (2000 500 0 0)
Process: 3 I/O blocked... (2000 500 500 500)
Process: 2 registered... (2000 500 500 500)
Process: 2 I/O blocked... (2000 500 1000 1000)
Process: 3 registered... (2000 500 500 500)
Process: 3 I/O blocked... (2000 500 1000 1000)
Process: 2 registered... (2000 500 1000 1000)
Process: 2 I/O blocked... (2000 500 1500 1500)
Process: 3 registered... (2000 500 1000 1000)
Process: 3 I/O blocked... (2000 500 1500 1500)
Process: 2 registered... (2000 500 1500 1500)
```

```
Process: 2 completed... (2000 500 2000 2000)
Process: 3 registered... (2000 500 1500 1500)
Process: 3 completed... (2000 500 2000 2000)
Process: 4 registered... (2000 500 0 0)
Process: 4 I/O blocked... (2000 500 500 500)
Process: 4 registered... (2000 500 500 500)
Process: 4 I/O blocked... (2000 500 1000 1000)
Process: 4 registered... (2000 500 1000 1000)
Process: 4 I/O blocked... (2000 500 1500 1500)
Process: 4 registered... (2000 500 1500 1500)
```

0.3.3 Comments

Scheduling type was Batch since I did not change it in SchedulingAlgorithm.java file

Scheduling Name was First-Come First-Served since this is what what we use as described in README for this laboratory

Simulation run time is 10000 ms since it run untill the limit I set in conf file according to task description

CPU blocking is set everywhere to 500 ms as in conf file

Mean is 2000 since this is a value I set in conf value according to laboratory task description, same with standard deviation equal to 0 and CPU Time equal to 2000 ms

CPU completed is equal to expected 2000 ms, this makes sense since we had run time equal to 10000 ms and 5 procesess so each of them could take exactly the amonunt of time we set them to take.

0.4 Ten processes

0.4.1 Summary Results

```
Scheduling Type: Batch (Nonpreemptive)
Scheduling Name: First-Come First-Served
Simulation Run Time: 10000
Mean: 2000
Standard Deviation: 0
```

Process#	CPU Time	IO Blocking	CPU Completed	CPU Blocked
0	2000 (ms)	500 (ms)	2000 (ms)	3 times
1	2000 (ms)	500 (ms)	2000 (ms)	3 times
2	2000 (ms)	500 (ms)	2000 (ms)	3 times
3	2000 (ms)	500 (ms)	2000 (ms)	3 times
4	2000 (ms)	500 (ms)	1000 (ms)	2 times
5	2000 (ms)	500 (ms)	1000 (ms)	1 times
6	2000 (ms)	500 (ms)	0 (ms)	0 times
7	2000 (ms)	500 (ms)	0 (ms)	0 times
8	2000 (ms)	500 (ms)	0 (ms)	0 times
9	2000 (ms)	500 (ms)	0 (ms)	0 times

0.4.2 Summary Processes

```
Process: 0 registered ... (2000 500 0 0)
Process: 0 I/O blocked ... (2000 500 500 500)
Process: 1 registered ... (2000 500 0 0)
Process: 1 I/O blocked ... (2000 500 500 500)
Process: 0 registered ... (2000 500 500 500)
Process: 0 I/O blocked ... (2000 500 1000 1000)
Process: 1 registered ... (2000 500 500 500)
Process: 1 I/O blocked ... (2000 500 1000 1000)
Process: 0 registered ... (2000 500 1000 1000)
Process: 0 I/O blocked ... (2000 500 1500 1500)
Process: 1 registered ... (2000 500 1000 1000)
Process: 1 I/O blocked ... (2000 500 1500 1500)
Process: 0 registered ... (2000 500 1500 1500)
Process: 0 completed ... (2000 500 2000 2000)
Process: 1 registered ... (2000 500 1500 1500)
Process: 1 completed ... (2000 500 2000 2000)
Process: 2 registered ... (2000 500 0 0)
Process: 2 I/O blocked ... (2000 500 500 500)
Process: 3 registered ... (2000 500 0 0)
Process: 3 I/O blocked ... (2000 500 500 500)
Process: 2 registered ... (2000 500 500 500)
Process: 2 I/O blocked ... (2000 500 1000 1000)
Process: 3 registered ... (2000 500 500 500)
Process: 3 I/O blocked ... (2000 500 1000 1000)
Process: 2 registered ... (2000 500 1000 1000)
Process: 2 I/O blocked ... (2000 500 1500 1500)
Process: 3 registered ... (2000 500 1000 1000)
Process: 3 I/O blocked ... (2000 500 1500 1500)
Process: 2 registered ... (2000 500 1500 1500)
Process: 2 completed ... (2000 500 2000 2000)
Process: 3 registered ... (2000 500 1500 1500)
```

```
Process : 3 completed ... (2000 500 2000 2000)
Process : 4 registered ... (2000 500 0 0)
Process : 4 I/O blocked ... (2000 500 500 500)
Process : 5 registered ... (2000 500 0 0)
Process : 5 I/O blocked ... (2000 500 500 500)
Process : 4 registered ... (2000 500 500 500)
Process : 4 I/O blocked ... (2000 500 1000 1000)
Process : 5 registered ... (2000 500 500 500)
```

0.4.3 Comments

Scheduling type was Batch since I did not change it in SchedulingAlgorithm.java file

Scheduling Name was First-Come First-Served since this is what what we use as described in README for this laboratory

Simulation run time is 10000 ms since it run untill the limit I set in conf file according to task description

IO Blocking set to 500 ms as in config file

Mean is 2000 since this is a value I set in conf value according to laboratory task description, same with standard deviation equal to 0 and CPU Time equal to 2000 ms

CPU completed this time is equal to 2000 up to 4th process and then is equal to 1000 ms for 5th and 6th and then it is equal to 0 ms, this means that the simulation exceeded the runtime before it had a chance to run all processes