Activity 1. Factor 1: problem size

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| PC1 | 1556 ms | 6393 ms | 25789 ms | OoT | OoT | OoT | OoT |

Activity 2. Factor 2: computer performance

PC1 : RAM (16,0 GB), CPU(12th Gen Intel(R) Core(TM) i5-12400 2.50 GHz)

PC2: Acerca de tu PC

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| PC1 | 1556 ms | 6393 ms | 25789 ms | OoT | OoT | OoT | OoT |
| PC2 |  |  |  |  |  |  |  |

Activity 3. Factor 3: implementation enviroment

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| PY | 1556 ms | 6393 ms | 25789 ms | OoT | OoT | OoT | OoT |
| Java | 77 ms | 287 ms | 1157 ms | 4609 ms |  |  |  |

Activity 4. Factor 4: algorithm that is used

Python:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| PYA1 | 1556 ms | 6393 ms | 25789 ms | OoT | OoT | OoT | OoT |
| PYA2 |  |  |  |  |  |  |  |
| PYA3 |  |  |  |  |  |  |  |

Java without optimization( DJava.compilation=NONE ):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| JA1 |  |  |  |  |  |  |  |
| JA2 |  |  |  |  |  |  |  |
| JA3 |  |  |  |  |  |  |  |

Java with optimization:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| JA1 |  |  |  |  |  |  |  |
| JA2 |  |  |  |  |  |  |  |
| JA3 |  |  |  |  |  |  |  |