**Nama : Andika Pebriansyah**

**NPM : 2208107010058**

**Tugas 2 Struktur Data dan Algoritma**

1. **Hasil Evaluasi**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Jenis Algoritma | Jumlah Bilangan | waktu(ms) | waktu(s) | waktu (min) |
|  | 100000 | 25719,00 | 25,719 | 0,4 |
|  | 200000 | 102115,00 | 102,115 | 1,7 |
|  | 300000 | 232226,00 | 232,226 | 3,9 |
|  | 400000 | 411443,00 | 411,443 | 6,9 |
| Bubble Sort | 500000 | 634103,00 | 634,103 | 10,6 |
|  | 600000 | 908013,00 | 908,013 | 15,1 |
|  | 700000 | 1244707,00 | 1244,707 | 20,7 |
|  | 800000 | 1621756,00 | 1621,756 | 27,0 |
|  | 900000 | 2057299,00 | 2057,299 | 34,3 |
|  | 1000000 | 2546724,00 | 2546,724 | 42,4 |
|  | 100000 | 10611 | 10,611 | 0,2 |
|  | 200000 | 42022 | 42,022 | 0,7 |
|  | 300000 | 94930 | 94,93 | 1,6 |
|  | 400000 | 166705 | 166,705 | 2,8 |
| Selection Sort | 500000 | 259628 | 259,628 | 4,3 |
|  | 600000 | 376386 | 376,386 | 6,3 |
|  | 700000 | 515105 | 515,105 | 8,6 |
|  | 800000 | 663530 | 663,53 | 11,1 |
|  | 900000 | 840129 | 840,129 | 14,0 |
|  | 1000000 | 1040338 | 1040,338 | 17,3 |
|  | 100000 | 5886 | 5,886 | 0,1 |
|  | 200000 | 25373 | 25,373 | 0,4 |
|  | 300000 | 51983 | 51,983 | 0,9 |
|  | 400000 | 95071 | 95,071 | 1,6 |
| insertion Sort | 500000 | 146256 | 146,256 | 2,4 |
|  | 600000 | 219801 | 219,801 | 3,7 |
|  | 700000 | 286081 | 286,081 | 4,8 |
|  | 800000 | 376904 | 376,904 | 6,3 |
|  | 900000 | 474052 | 474,052 | 7,9 |
|  | 1000000 | 593138 | 593,138 | 9,9 |

1. **Spesifikasi Laptop**

Processor: Intel Core i5-8300H 2.30 GHz

RAM: 4GB DDR4, SSD: 1TB

VGA: NVIDIA GeForce GTX 1050 4GB

1. **Lampiran**

