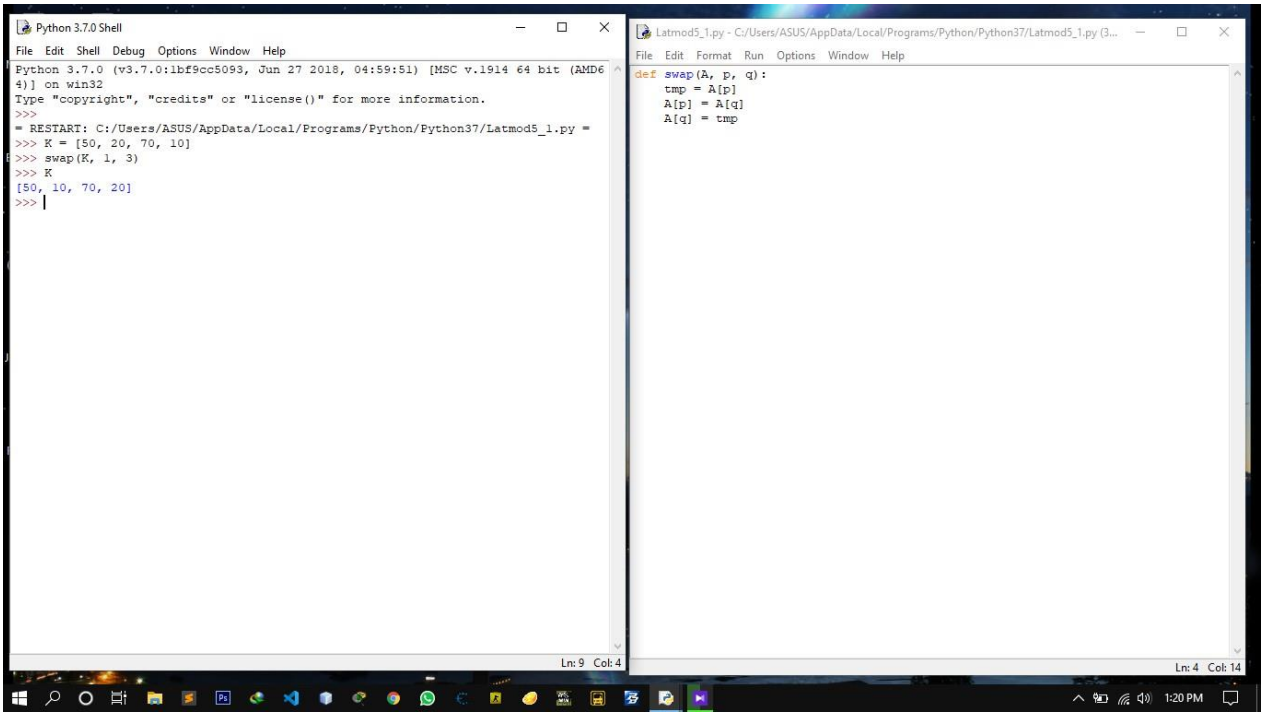
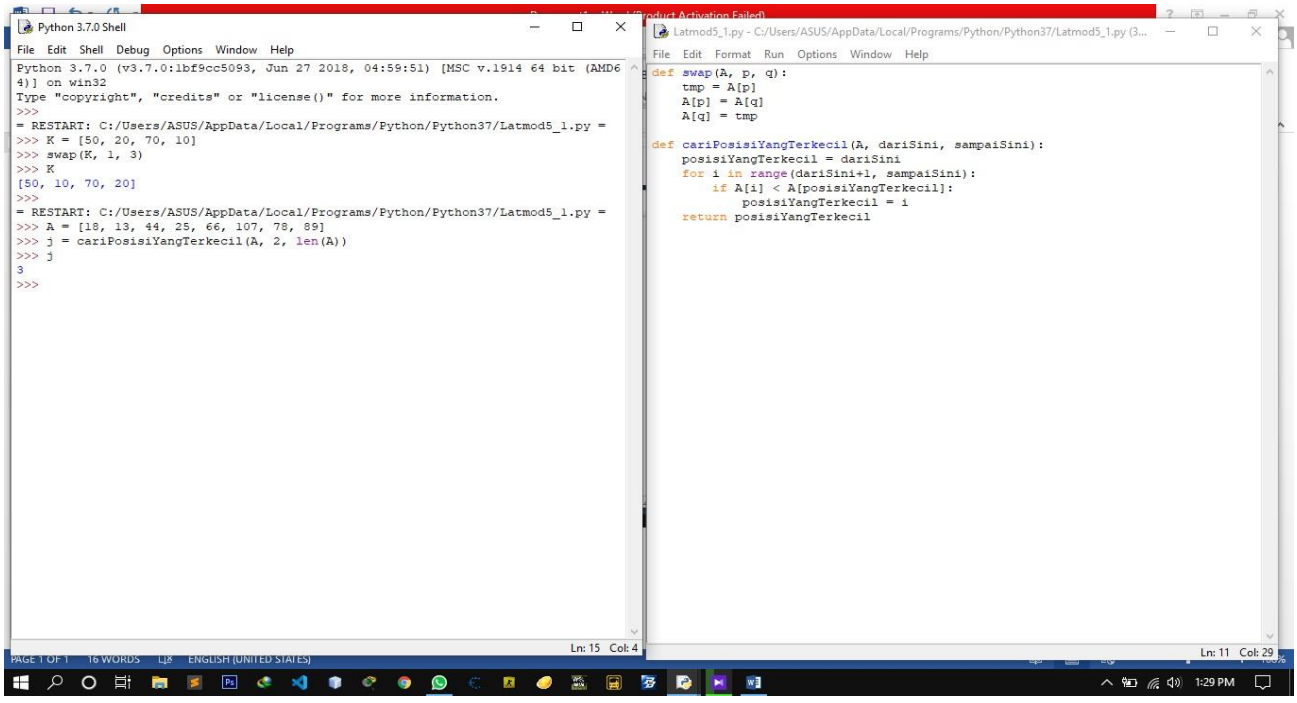
**Nama : Bayu Prayitno Aji**
**NIM : L200180054**
**Kelas : C**

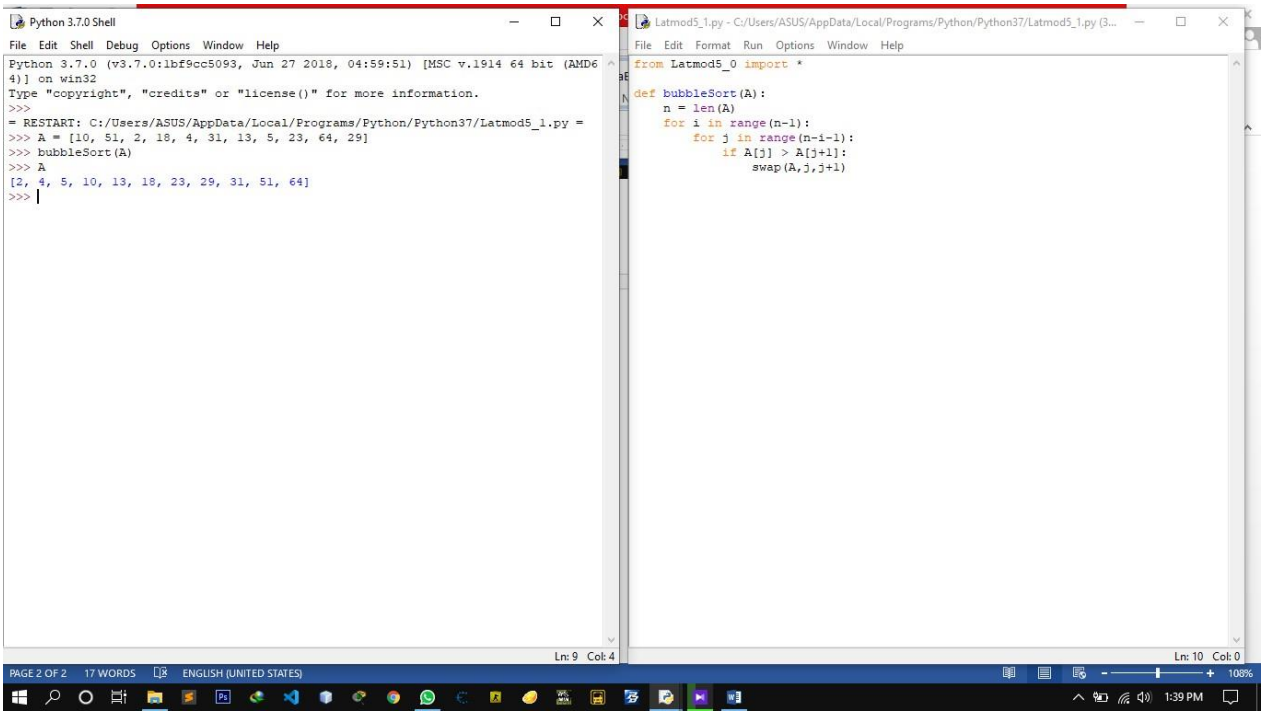
## Kegiatan Praktikum Modul 5

5.0



5.1 Bubble sort




Pertanyaan : dengan elemen sebanyak n, berapa banyakkah operasi perbandingan dan pertukaran yang dilakukan oleh algoritma bubble sort ini? Selidiki nilainya untuk *worst-case*, *average-case*, dan *best-case scenario*

Jawab :

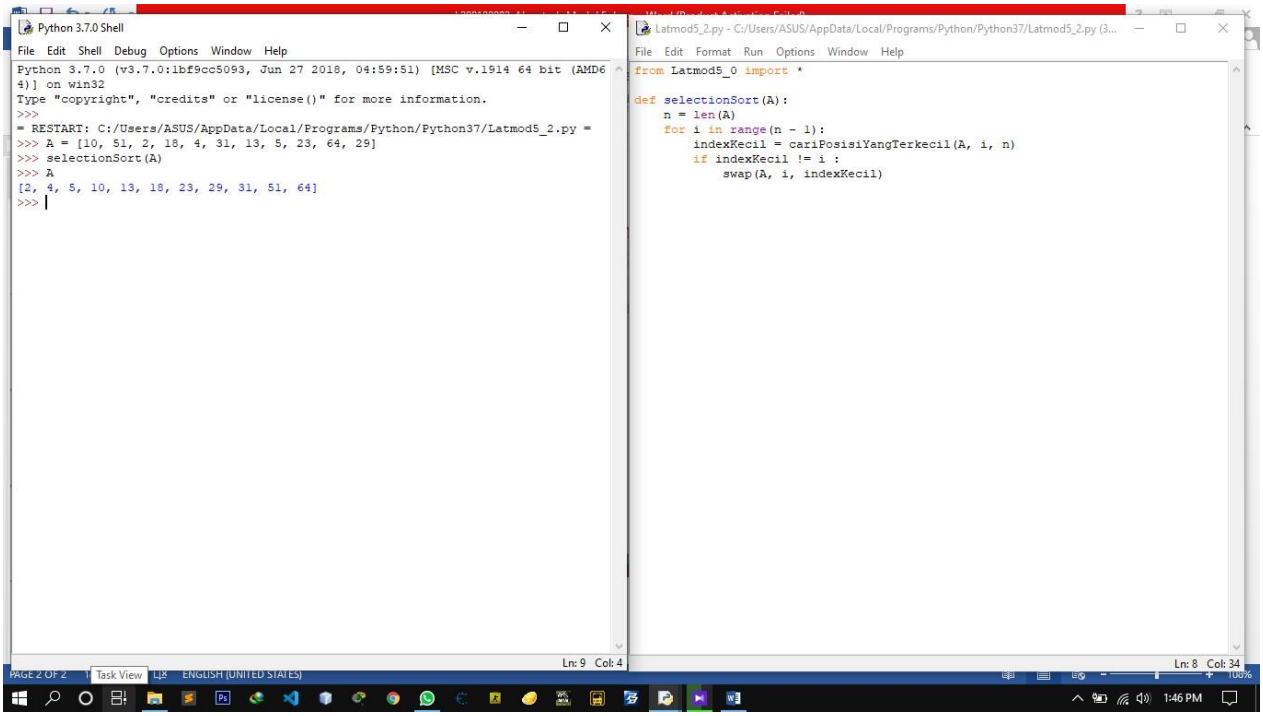
Worst Case Time Complexity [ Big-O ]: O(n2)

Best Case Time Complexity [Big-omega]: O(n)

Average Time Complexity [Big-theta]: O(n2)

Berdasarkan perhitungan dengan rumus tersebut, ada 107 perbandingan dan pertukaran.

5.2 Selection sort




Pertanyaan : dengan elemen sebanyak n, berapa banyakkah operasi perbandingan dan pertukaran yang dilakukan oleh algoritma selection sort ini? Selidiki nilainya untuk *worst-case*, *average-case*, dan *best-case scenario*

Jawab :

## 5.3 Insertion sort