Adv. Software Development Concepts
Assignment – 2 (Part - II)

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Commits

- The Code has been taken from the Apache atlas GitHub repository.
- The Commits has been taken within the period of 6 months so that there is a significant changes in the Line of Code.
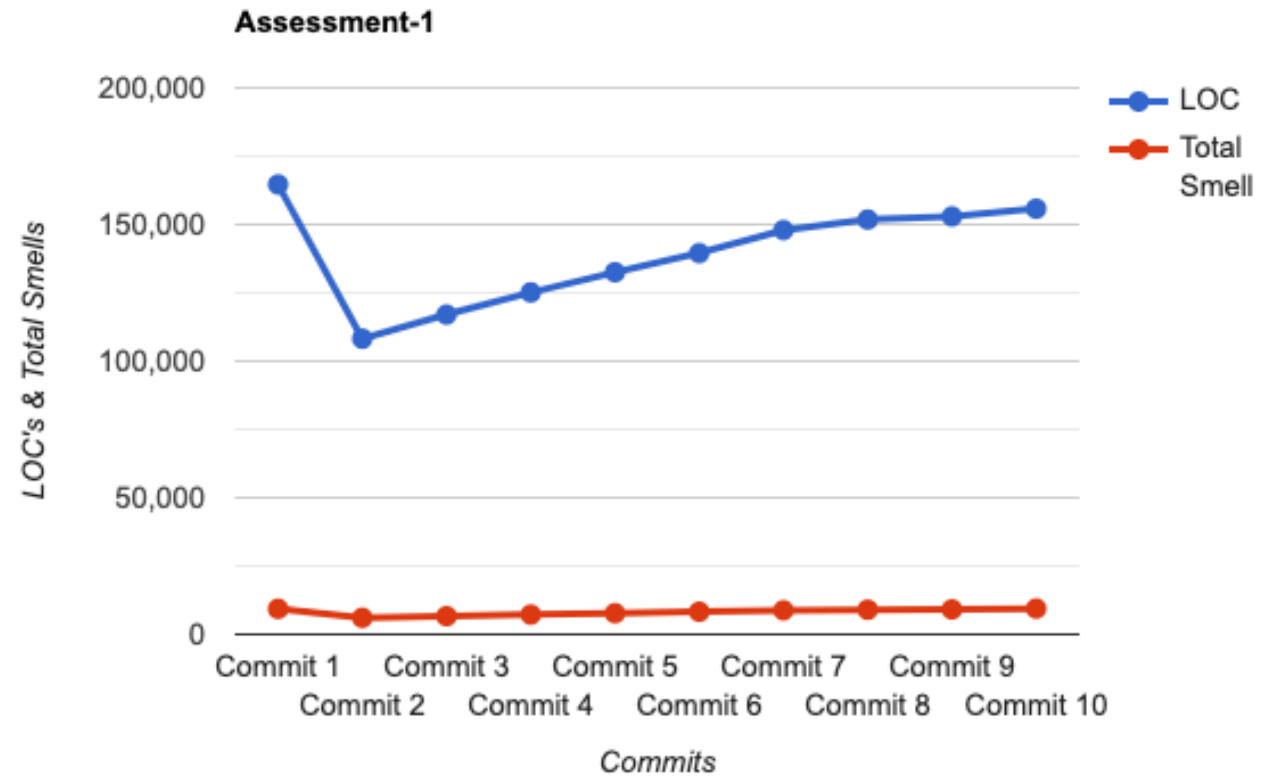
https://github.com/apache/atlas

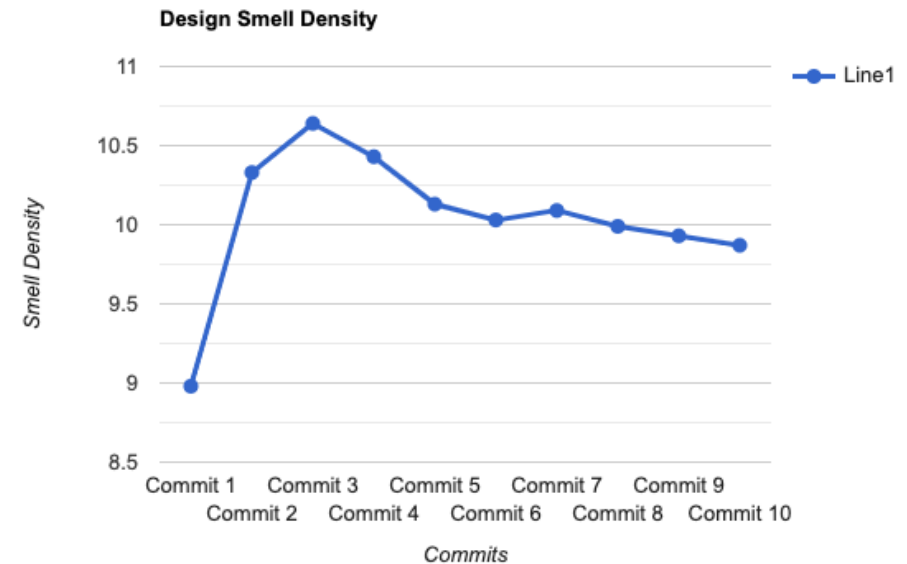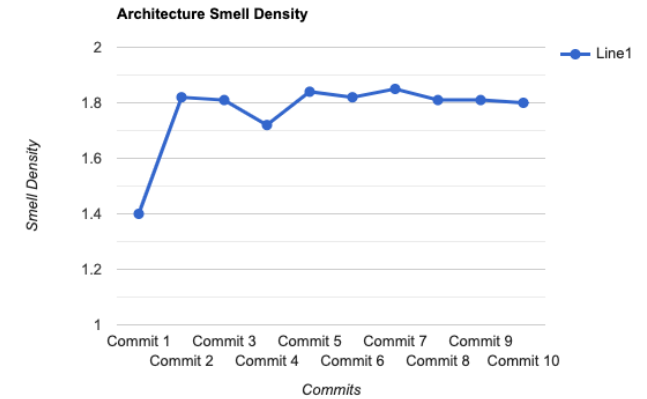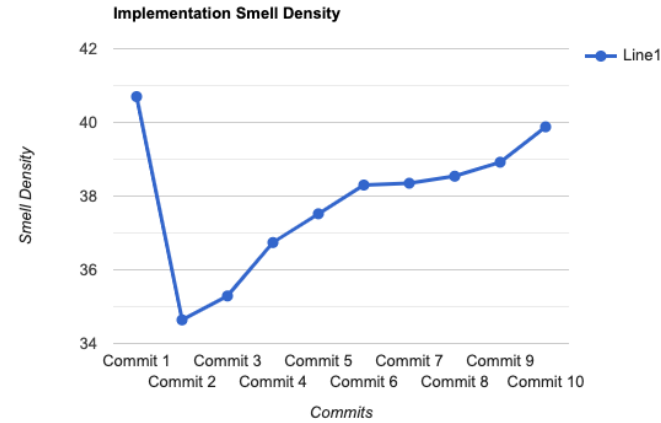| Commit Number	Commit Date
1	5th June 2018
2	4th January 2019
3	3rd June 2019
4	9th January 2020
5	3rd June 2020
6	4th January 2021
7	4th June 2021
8	20th January 2022
9	15th June 2022
10	27th January 2023

Assessment-1

Observations

- In the first commit, there was a significant Line Of Code (LOC) and Total Smells, but it seems that they decreased the LOC's and Total Smells during Commit 2.

- It can be observed from the line graph that LOCs and Total smells are proportional to each other (For this code).

Assessment-2

Implementation Smell Density

Architecture Smell Density

Design Smell Density

- It seems that they refactored their code on large scale and divided their code into classes and components, as a result their implementation smell density decreased but architecture and design smell densities increased significantly.

Assessment-3