CS 410 Assignment 01: the Assignment caries a weight of 15 Marks for your course work. It shall be done in group of five students except for only one group which shall miss at least two members because you are 58 in class. So it is imagined that, in the end I will get 12 assignments except for the student who carried the course last year whom shall do their work in at least one group. **Due date for submission: 6ᵗʰ January 2019 23:59 Hrs. Assignment later than this will be rejected. Use tom.tesha@gmail.com as a submission email.**

1. For non-software objects like the computer hardware and the like, maintenances are required to repair the effects of wear and tear. This is surely indeed. In case of the non-buggy software, what is the most frequent cause that requires "maintenance"?

2. Using internet sources, books and other sources of information, establish what is the purpose of a software impact analysis

3. Considering any software, in your own thinking, what do you think are the four semantic levels of software that need to be maintained?

4. What are the reasons for refactoring object-oriented code and state when should a method be split up into sub methods?

5. What are the reasons for causing software to die?

6. The software maintainability is one of the most important aspects while evaluating the quality of any software product and it is defined as the ease with which a software system or component can be modified to correct faults, improve performance or adapting to a changed environment. Succinctly establish how text mining, data mining and temporal mining assist in predicting the software maintainability.