**Practical 1**

**Aim: To study various Software development life cycle (SDLC) models prepare a report of their analysis with answering given questions.**

**Watch these videos on youtube first:**

What is SDLC? (4:54) <https://www.youtube.com/watch?v=4xCldpbDZ10>

Waterfall model: (6:08) <https://www.youtube.com/watch?v=Y_A0E1ToC_I>

**Questions:**

1. Write one example of a software project that would be amenable to the classical waterfall model.
2. What is the difference between incremental process model and evolutionary process model?
3. Which model is more suitable for your capstone project-1? Why?
4. State the parameters to choose suitable life cycle model for any system.
5. Which life cycle model is/are widely used in software industry nowadays?
6. Give the comparison of all life cycle models with the options given.
7. Based upon characteristics of different SDLC models, fill the details: Poor, Good, Excellent

| **Sr. No** | **Model / Feature** | **Waterfall model** | **Prototype Model** | **Spiral Model** | **Iterative or Incremental Model** |
| --- | --- | --- | --- | --- | --- |
| 1 | Unclear User requirements |  |  |  |  |
| 2 | Unfamiliar technology |  |  |  |  |
| 3 | Complex System |  |  |  |  |
| 4 | Short-time schedule |  |  |  |  |
| 5 | Strong project management |  |  |  |  |
| 6 | Cost limitation |  |  |  |  |
| 7 | Documentation |  |  |  |  |
| 8 | Component reusability |  |  |  |  |