**NAMRATA PANDEY**

**ASSIGNMENT 04**

**Q.1 When SDLC is called software development life cycle and when it is called system development Life Cycle? Differentiate between the two Terms.**

**Ans:** The software development life cycle is a framework defining tasks performed at each step in the software development process. It is a structure followed by the development team within the software organization. It consists of detail plan on how to develop, maintain and replace specific software. The whole life cycle defines a method of improving the quality of software and the overall development process. The software development life cycle is also called as software development process. The different steps are as follows: planning, implementation, testing, documentation, deployment and maintenance and maintaining. There are different models like waterfall model, V-shaped model, incremental model for achieving the overall development process.

The system development life cycle in SDLC is also called as application development life cycle and is a term used to describe a process for planning. Creating, testing and deploying an information system. It applies to a range of hardware and software configurations.

* ***Difference between software development life cycle and system development life cycle.***

Software development life cycle only looks at software components development planning, technical architecture, software quality testing and deployment of working software whereas System development life cycle involved end to end people, process, software, technology deployment. This also comprises of change management, training, organizational updates. System development lifecycle is much broader term than software development life cycle. Basically, software development life cycle is the part of system development life cycle.

* ***Where both are used:***

Software development life cycle is used when we need to design, develop and test high quality software. It focuses exclusively on the software components.

System development life cycle is used when we need to take into account the overall implementation and deployment to make sure that the process is complete from scratch to the stage where it gets fully completed. Put simply, system development life cycle is more holistic and comprehensive.