**Q-3 What is SDLC? Explain each phase of SDLC**

**Ans.** The SDLC stands for [Software Development Life Cycle] is a structured process used by software developers to plan, design,build, test and maintain software systems. Each phase has its own set of activities and objectivies.

1. **Planning:** In this phase, project goals, requirements and constraints are identified.Key decisions are made including bugeting and project timelines.
2. **Analysis :** This phase defines the reqirements of the systems. This involves interviews, surveys, and studying existing systems.
3. **Design :** In this phase, system architects and designers create adetailed blueprint for the software. Create best design.
4. **Implementation**: Implementation is where our backend and frontend side applied.
5. **Testing and Integration** : In this we have tested our project that it is good or not.
6. **Maintenance**: In this we maintain and upgrade the system or program