1. **What is the Feasibility Study of the SDLC model & why is this important?**

**Feasibility study in SDLC is a stage that covers the reason for creating the software and what benefits will user get. Through this study we can understand if the software will solve the problem user currently facing. It is very important to make flexible and industry standard software. This study helps us to create a useful and demanding software solution. User will be benefitted from this software if feasibility study takes place properly before developing the software. It makes the development of software process easy and convenient and also saves user’s budget.**

1. **Write 5 advantages of Agile methodology.**
2. **Agile method breaks the task into small iterable part which helps building software solutions dynamical.**
3. **Agile methods helps maintenance and feature modification easier.**
4. **Agile methods helps developer to make software solutions working at a very short time.**
5. **User requirements can be handled easily.**
6. **It is a continuous development process so future requirements can be handled easily.**
7. **Write short notes on SDLC model phase.**
8. **Planning:** To start development of a software first we need a proper planning. Without a clear goal no standard software can be build. We need a proper goal to achieve its solution.
9. **Requirement analysis:** The next step will be analysis of the requirements. We have to go through various types of requirement analysis before starting to develop a software. User’s need is an important requirement we have to keep in mind, then our challenges to make the software, tools needed to make the software, gathering user feedback for the solution are some important requirements.
10. **Designing the software:** Next important stage is designing of the software. In this step we have to design a proper solution to the user problems by using some tools such as prototyping tools, ERD diagram, data-flow diagram etc. This design will set us clear goal to develop the software easily.
11. **Developing the project:** After designing the software there comes our developing the software. In this stage we have code the solution. Some developers are assigned to this task and divides task among them so that we can develop the solution at a time limit.
12. **Testing:** In this stage our SQA team will do their task of testing the software before handling to the user. Testing is a important part of SDLC. Without a proper testing our software can have many dangerous issues regarding to business loss. So testing before deploy to check if the software is working properly to meet the business needs without any bugs is important.
13. **Deployment:** After completing all the above stages our software will be ready of deployment. After deploy the user can use this software and can give their feedback if some problems have arouse.
14. **Maintenance:**  After the software is complete there comes the maintenance part. In this stage if some bugs occurs in our software or user is facing some problems using our software then we have to provide the proper solution to their problem. Our software should be flexible to apply changes and feature updates.