1. **Briefly explain what scrum is.**

* Scrum is an agile software development model or framework that follows the iterative or incremental approachso that we can get quick feedback and adopt to the changing markets or customer needs.
* In Scrum we work in sprint, it is time box development effort it can be 1,2,3,4 weeks 1-week sprints are very rare. We are various ceremonies or meeting in scrum write at the beginning of the sprint, sprint planning or meeting where we pull the work for that sprint from the product backlog into the sprint backlog within assign this work to developers, testers and other members as this work gets done.
* We have other ceremony every day call a stand-up meeting where in discuss the progress.
* At the end of the sprint will demonstrate the all the work that is done to the product owners or the customers to get the approval.
* And sprint Retrospective meeting at the end of every sprint to see what went well in the previous spring and what didn’t go well, and what can be improved which is very key feature of any agile development framework or model.

1. **What are the Roles and responsibilities on a scrum team?**

* It all starts with the product owner then have architecture, developers, testers, the scrum master and some cases will have the Devops engineer on the team.
* A product owner one who interacts with the customer, and he comes up with the requirements the rest of the team to work on it.
* The developers, testers and the architects work closely with the owner in understanding the requirements and delivering the product.
* The architects ensure that the application architecture impact and the deliver the non-functional requirements such as scalability, security, deployment etc.
* Also ensure that the developers and testers are following the industry standards and guidelines.
* Developers work closely with the product owner, understanding the requirement and with the architects to implements the requirements in the right way as the develop the product.
* Once the developer develops the feature, they will deliver to the testers who is responsible for the QA.
* Testers again work closely with the product owner to understand the requirement and get the acceptance criteria as per the product owner and the test the application deliver as per those requirements. They also work closely with the architects to automate the testing process by following the guidelines.
* Scrum master who is the key on every scrum team, here ensures that all the ceremonies like planning, standup meetings, retrospective meeting are done correctly and if the developers, testers are the architects any impediments or roadblocks with other teams he will ensure that and resolved.
* Also defend the team, if any distractions caused by other teams in the company.
* Devops teams which is optionally, developers, testers, and architects usually works with the devops team, which will have their own team to get our feature or product to the production.

1. **What is sprint planning?**

* It happens at the beginning of the new sprint or in between two sprints we are the team scrum master, architects, developers and testers meet with the product owner and pull the stories to works in that sprint. So, we come up with the spring backlog, the developers, QAs and other team members will then pull they want to work on.
* The product owner and the scrum master ensure that everybody on the team as kenaf work for that sprint and then will be able to deliver whatever we promised in the sprint backlog.

1. **What is a standup meeting?**

* A standup also known as scrum meeting or just scrum happens every day typically in the morning, where all team members architects, developers, QAs will meet and share the status of their current work, that is the stories they are working on. A typically use 3 sentences
* What they have done the previous day
* What they will working on today and
* If they have any impediments, they will state them as well, that is roadblocks to their work then other teams are help them to roadblocks and scrum master can get them resolved after the standup meeting.
* Stand-up meetings are sort typically 5-10 min where each person talks not more than a 10 mins but sometimes it might go longer, that is where the scrum master comes in and ensure that they are sort to the point and if they anything else that as to taken up he will say take it offline after the meeting.
* The product owners typically say out of the scrum meeting, occasionally just see how things are going within the sprint and if we are on track.
* The advantages of the stand-up meetings are to know how things are moving within a sprint and there are any roadblocks resolve them right away and if there are any issue we learn from them and move on its the key in agile software development.

1. What is the Sprint Retrospective meeting?

* This meeting has happened for the end of each sprint where the entire team meet its usually without the management that we can talk and share our thoughts freely and discuss 3 important things are:
* What went well in the previous sprint.
* What didn’t go well as expected.
* Insights for the future both from what went well and what didn’t go as expected. Track should not repeat.