Q2. ***Why you choose webdriver over RC ?***

**Ans…**

i)**WebDriver** is faster than **Selenium RC** because of its simpler architecture;

ii) **WebDriver** directly talks to the browser while **Selenium RC** needs the help of the **RC** Server in order to do so;

iii) **WebDriver's** API is more concise than **Selenium RC's**;

iv) **WebDriver** can support HtmlUnit while **Selenium RC** cannot.

Q3.what is Slenium webDriver?

Ans…Selenium WebDriver is a tool for testing web applications **across different browsers** using different programming languages to verify that it works as expected. It supports multiple browsers.

Q4. What is the difference between keyword driven and data driven framework?

Ans…**data**-**driven frameworks**, you only need to plan for what test **data** and test scripts are needed. With **keyword**-**driven frameworks**, you need to plan for **keywords** and their implementations along with test **data** and test scripts.

Q5. What is a Framework?

Ans…A **testing framework** is a set or combination of guidelines , protocols , concept , process etc are used for creating and designing **test** cases. A **framework** is contained of a combination of practices and tools that are designed to help QA professionals **test** more efficiently. **A software testing framework provides an environment to execute test scripts.**

**Q6. What is REST/Expalin REST?**

**Ans…**REST stands for Representational State Transfer. REST is an architectural style of developing web services which take advantage of the ubiquity of HTTP protocol and leverages HTTP method to define actions. REST uses different ways to represent a resource like text, JSON, and XML.XML and JSON are the most popular representations of resources these days.

Q7.What does SOAP API stand for?

**SOAP stands for** Simple Object Access Protocol. **SOAP** can work with any application layer protocol, such as HTTP, SMTP, TCP, or UDP. It returns data to the receiver in XML format.

**Q-8. Explain the RESTFul Web Service?**

**Ans.** Mostly, there are two kinds of Web Services which are quite popular.

**i).** SOAP (Simple Object Access Protocol) which is an XML-based way to expose web services.

**ii).** Web services developed using REST style are known as RESTful web services. These web services use HTTP methods to implement the concept of REST architecture. A RESTful web service usually defines a URI, Uniform Resource Identifier a service, provides resource representation such as JSON and set of HTTP Methods.

### Q-9. Explain what is a “Resource” in REST?

**Ans.** REST architecture treats every content as a resource. These resources can be either text files, HTML pages, images, videos or dynamic business data.

Q10…What is SQL?

Ans SQL Stands for Structured Query Language which is specially designed to communicate with databases. SQL(Sequel) is very widely used language in most of the database management systems like Oracle,MySQL,PostgreSQL etc.SQL provides us  a simple and efficient way of reading,writing,executing the data from the system.

Q12. What is an iteration?

Ans**… Iteration is the repetition of a process in order to generate an outcome. The sequence will approach some end point or end value. Each repetition of the process is a single iteration.**

**Q13. What you know about Agile?**

**Ans…Agile** is a process / methodology/system by a team can manage a project by breaking it up into several stages and involving constant collaboration with stakeholders and continuous improvement and iteration at every stage. Scrum and Kanban are two of the most widely used **Agile methodologies**. **Agile methodology**  uses short **development** cycles called “sprints” to focus on continuous improvement in the **development** of a product or service.

Q14. What is Jenkins and why we use it?

**Ans…Jenkins** is an open-source automation tool written in Java with plugins built for Continuous Integration purposes. **Jenkins** is **used** to build and test a software project , so developers can continuously integrate changes into the build  and making it easier for users to obtain a fresh build . **Jenkins** is the most popular open source CI/CD tool now a days. It also supports version control tools like Subversion, Git, Mercurial, and Maven.

Q14. What is Git?

Ans…Git is an extremely popular version control system that is at the heart of a wide variety of high-profile projects. Git is installed and maintained on your local system (rather than in the cloud) and gives you a self-contained record of your ongoing programming versions. It can be used completely exclusive of any cloud-hosting service — you don’t even need internet access, except to download it.

Compared to other version control systems, Git is responsive, easy to use, and inexpensive (free, actually). Git is also specially designed to work well with text files.

Q15.What is GitHub?

Ans… GitHub is a Git repository hosting service, but it adds many of its own features. While Git is a command line tool, GitHub provides a Web-based graphical interface. It also provides access control and several collaboration features, such as a wikis and basic task management tools for every project.

Q16.What is API?

Ans… **API** is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other. Each time you use an app like Facebook, send an instant message, or check the weather on your phone, you're using an **API**.

Q17. What is Log4j and why do we use it?

Ans… **log4j is** a tool to help the programmer to enable logging so that the problem can be located. With **log4j** it **is** possible to enable logging at runtime without modifying the application binary.

Q18. How does thread priority work?

when multiple **threads** are ready to be executed, the runtime system chooses the runnable **thread** with the highest **priority** for execution. Only when that **thread** stops, yields, or becomes not runnable for some reason will a lower **priority thread** start executing. ... A higher **priority thread** becomes runnable.

Q19. Jira VS Rally

**Jira** Software is an agile project management **tool** that supports any agile methodologies like Scrum and Kanban.

**Jira** was originally designed as an issue tracking system for development teams.

**Jira** software is **popular** in the agile world due to its well-managed workflow mapping and issue tracking ability.

**Rally** is an end-to-end solution that meets the needs of users,**Rally** is a project management **tool used** to track each phase of the development iterations and releases. This **tool** is also **used** to map defects with the user stories.

Q20. What is bytecode and why is it needed?

**Bytecode** is a highly optimized set of instructions that is executed by the Java Virtual Machine. **Bytecode** helps Java achieve both portability and security.