WS/Rest Api

1. Diffrence between Web Service and API?
2. Diff between Soap and Rest?
3. Http Methods?
4. Explain Safe , Idempotent and Secure Http methods?
5. List the status codes?
6. Types of Authentications ?
7. What do you test in an API ?
8. What you require before you start Api testing?
9. Fw for doing RestApi Automation using java lang ? (httpClient and RestAssured)
10. Steps to Automate Api ?
11. Create Maven Project and add the required dependencies to POM.xml
12. **Apache HttpClient / RestAssured**
13. **TestNg**
14. Apache IO Commons : to convert the entity response to a proper String
15. **Oauth SignPost and OAuth Commonhttp** : in order to implement the Oauth confuguaration setup
16. **Org.json** ( for parsing the response )
17. **Apache POI**(for Data Driven Testing)
18. Write the code to call an API and get the response
19. Parse the response
20. Add the assertions and test
21. Before starting the Api testing we can check the response manually using Manual api testing plugins( postman plugin for chrome)…
22. Select the http method either Get/Post/Put etc and give the API URI we get the response…
23. For manual testing with the postman response we write the testcaseand test the API …
24. Same thing we try to do using program…so first we write the code to get the response and parse the response and add the assertions and verify the results.

We can do automation testing of restApi using SoupUI tool, but there would be some things which cant be done using tools like continuous build and integration cant be done usingtool.