**Q-1. Explain REST?**

Rest is an architectural style to provide a standardized way of transferring data between a client and a server.

**Q-2. Explain the RESTFul Web Service?**

A RESTful webservice exposes a set of resources so that they are available for cliets to interact with. Those resources are identified by their respective URIs.

**Q-3. Explain what is a “Resource” in REST?**

A resource in REST is like an Entity in a database or an object in OOP, In our lecture today- the resource was a Student.

**Q-4. What is the most popular way to represent a resource in REST?**

JSON or perhaps XML, but JSON is commonly preferred…

**Q-5. Which protocol is used by RESTful web services?**

REST doesn’t specify a specific protocol for the communication, but HTTP/HTTPS is the most common protocol for web services.

**Q-6. What is messaging in RESTful web services?**

**Q-7. Name the most commonly used HTTP methods supported by REST?**

POST, GET, PUT, DELETE, PATCH

**Q-8. Mention, whether you can use GET request instead of PUT, to create a resource?**

You can’t use GET to create a resource, Get method should only have the right to read, not to write.

**Q-9. Is there any difference between PUT and POST operations? Explain it.**

PUT is used to update an existing resource. PUT is used when a new resource should be created.

**Q-10. What purpose does the OPTIONS method serve for the RESTful web services?**

It is used to get information on which the communication options for the specific resource are.

**Q-11. What is URI? Explain its purpose in REST-based web services. What is its format?**

A URI is a string of characters that identifies a specific resource, for example the path to the rest service that retrieves all students. In rest services, the uri consists of the path that is relative to the root, ie in our example application, the uri is the part after localhost:8083 of the url. (/students/getAll for example)

**Q-12. List the main differences between SOAP and REST?**

Soap is a protocol that couples the server with the client through the wsdl contract. Soap is also based purely on XML whereas a REST web service never defines a contract between the server and the client. REST services are never tied down to just xml, instead it can communicate with xml, json or even plain text.