**Web Services Introduction**

* Serlvets, JSP along with JDBC helps to develop Web Application.
* However “Web Services” a.k.a “Application Services” is a concept, independent of any specific programming language, helps web application to interact with other applications (Mobile Apps / Desktop Applications /Web Applications)
* Web Services, as name implies, they are the service available in “Web”. They take the request from applications, via communication protocol such as HTTP & generate Response
* Web Services take Web-applications to the Next Level !!!
* Unlike Web Applications, Web Services do not provide the user with a GUI.
* In other words Web services are meant for “Inter-System Communication / Application-to-Application Interactions but not for Users”
* Hence Web Services do not require the use of browsers or HTML
* Few real time examples of Web Services
* Mobile Apps (ex: Gmail App) communicate with their corresponding Web Applications (ex: Gmail) using Web Services.
* Uber / OLA Mobile Apps/Web Application interact with Google Maps using Web Services
* BookMyShow Web Application/ Mobile Application
* Web Service has two participants:

1. Service Provider / Producer
2. Service Requester /Consumer

* Service Provider exposes the “Service on Web” & Service Consumer uses this “Web Service”
* There are 2 types of Web Services

1. RESTful Web Services
2. SOAP Web Services / XML based Web Services

* Java provides 2 API’s to develop these web services

1. “JAX-RS” Api for developing “RESTful Web Services”
2. “JAX-WS” API for developing “SOAP Web Services”

* **“javax.ws.rs.\*”** is the package representation of JAX-RS API

**“javax.jws.\*”** is the package representation of JAX-WS API