**REST WEB SERVICES BY ASHOK**

SOAP:- soap web service used standard protocol called SOAP(Simple object access protocol) protocol(protocol means specific format of messages), client and server needs to talk each other only with xml format and the rules are defined on how that xml format should be. Incase of SOAP we have documentation called WSDL where it has information about Service format, type etc information. SOAP web services follow soap specificaiton(rules) Strictly on how the web service should be.

REST:- What is the protocol in case of rest- that is none. Rest (Representational state transfer) can support XML, JSON, TEXT or any other format. Rest services are web services. i.e request and response happeing over the web using HTTP. Http has many methods to exchange data between client and server. REST will use any method. we are following HTTP

REST is an architectural style. which makes easy access for consumers

Service: we need to know what webservice is does means what format, what request type, etc. No documentation for how service should be.

HTTP:- Hyper Text Transfer Protocol,- it is mechanisum or way to exchange/communicate the data online.

HYPERTEXT:- Hyper text is text which contains logical links to other text. And the links are called hyper links. A common and popular way to write a hypertext is hyper Text Markup Language.(HTML).

HTTP Consepts which applied on REST:-

1.Resource Location

Just like web pages, Rest Api has URL and adresses too. API’s are not ment for human reading. Html will use tags and css and read api response and make it as human readable format.

Resource Based URI - weatherapp.com/zipcode/1234

weatherapp.com/countries/brazil/zipcode/1234.

2.Methods

Methods like GET, POST,PUT,DELETE

3.Metadata

Status codes, response header which lead the server send back extra information. Status codes like 200(ok),201(ok),500(server error),404(resource is not found).

4. Format of Msgs:

How can server even identify the request.- answer is header value CONTENT-TYPE- it tells what is the request type.