

Assignment No. 5

SOAP & REST

* Problem Statement?

Nebservice - SDAP based: Implement a SOAP based Anithmetic web service which will accept a two values and operation to be performed (a, b, op) & return operations result to a web based service requestor. (The result of "operation is). Implement the same cosing RESTful webservices

* Objectives:
To learn Webservices that and methods to consume them

* Theory:

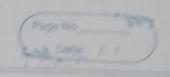
Web service:

A web sensite is a method of communication between two applications or electronic devices over the www.

Types of Services:

is SOAP (Simple Object Access Protocol)

It is on XML based industry standard protocol for designing and developing web services. It is platform and language independent. So our server can be



in Java and client can be on NET, PHP etc.

2) REST (Representational State Transfer)

It is an architectural style for developing useb services. It is getting more popularity recordly become it has a small learning curve when compared to SOAP. Resources are core concepts of REST web service and they are uniquely identified by them URI.

Web Service Architecture

1) Service Provider

2) Service Requestor

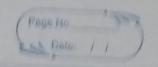
3) Service Registry

Designing the solution.

Java provides its own API to create SOAP & REST services

Services. It uses XML based Java APT to build web services services and chest applications

2) TAX-RS- JAVA API for REST web vervices. It uses annotations to simplify the development



and deployment of web services.

* Constusion:

was created and a distributed application was designed to consume the service.