

Assignment 2 : Define Monolithic and Microservices. **Difference between SOAP And REST.**

2.1 Monolithic and Microservice

Monolithic Architecture :

A monolithic architecture is the traditional unified model for the design of a software program.

Monolithic software is designed to be self-contained, wherein the program's components or functions are tightly coupled. In a monolithic architecture, each component and its associated components must all be present for code to be executed or compiled and for the software to run.

Micro Service Architecture :

A microservices architecture is a type of application architecture where the application is developed as a collection of services. It provides the framework to develop, deploy, and maintain microservices architecture diagrams and services independently.

Each microservice is a single service built to accommodate an application feature and handle discrete tasks. Each microservice communicates with other services through simple interfaces to solve business problems.

2.2 Difference Between SOAP and REST

<u>Rest</u>	<u>Soap</u>
Representational State Transfer	Simple Object Access Protocol
It is an architectural style	It is a protocol
It works with plain text, XML, HTML, JSON(preferred)	Works only with XML
It can use SOAP	It cannot use Rest
It does not need much bandwidth	It requires a lot of bandwidth
REST offers better support for browser clients as compared to SOAP.	SOAP does not offers better support for browser clients as compared to REST.