1. **What is web service?**

* Web Service is an appropriate way to propagate communication between client and server application over world wide web.
* When we want to share information between two interoperable applications we can use web service.
* Interoperable : Independent of each other
* Web service is specification
* Specification : It provides rules and guidelines for sharing information between two interoperable applications.

1. **What is the advantages of web services ?**

* Interoperability : Application developed in any language can comminucate with each other.
* Reusability : We can expose the web service so application can use it.
* Modularity : We can create service for specific task.
* Standard protocol for every application program.
* Cheaper cost for communication.

1. **What are the different types of web services ?**

There are two types of web services as below:

* SOAP(SIMPLE OBJECT ACCESS PROTOCOL): XML based message exchange Protocol
* REST(REPRESENTATIONAL STATE TRANSFER) : Stateless client server architecture.

1. **What are the different components of web services ?**

* SOAP
* REST
* UDDI
* WSDL

1. **What are the difference between API and Web services?**

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| --- | --- | --- |
| **No** | **API** | **WEB SERVICES** |
| 1. | It can be online or offline. | It must required network. |
| 2. | It is light weight architecture. | It is not light weight architecture (SOAP) |
| 3. | It can use any design style and protocol. | It uses SOAP,REST,RPC,XML,UDDI. |
| 4. | It supports HTTP/HTTPS,XML,JSON | It Supports HTTP,XML,JSON |
| 5. | They are open source . | They are not open source. |

1. **What is WSDL?**

WSDL (Web Services Description Language), as the name suggests, is considered the standard format that is used to describe the availability of web services and how to access them.It contains

* Method name and parameters
* Port types
* Service endpoint
* Header information, etc.

### What do you mean by UDDI?

UDDI (Universal Description, Discovery, and Integration) is a directory service used for describing, publishing, and finding web services. It is also used for creating business registries.