**Web Service**

A Web Service is can be defined by following ways:

It is a client-server application or application component for communication.

The method of communication between two devices over the network.

It is a software system for the interoperable machine to machine communication.

It is a collection of standards or protocols for exchanging information between two devices or application.

**There are mainly two types of web services.**

web-based application using the **REST, SOAP, WSDL,** and **UDDI** over the network.

For example, Java web service can communicate with .Net application.

**Restfull Web Services**

RESTful Web Services are basically REST Architecture based Web Services. In REST Architecture everything is a resource.

RESTful web services are lightweight, highly scalable and maintainable and are very commonly used to

create APIs for web-based applications.

**Difine Json\_encode & jason\_decode func with example ?**

If you need to retrieve specific information from the server and make it appear on your website, you will probably be using JSON. The name of JSON stands for JavaScript Object Notation. It is based on JavaScript, so having some basic knowledge of it would be greatly welcome here. JSON also uses JavaScript syntax.

$data=array("name"=>"Vineeta","age"=>"23") php arr to json

json={ “name”: “Vineeta” , ”age”:”23”} all json data supported in all technologies

JSON is anonymous data that can be translated in PHP variables.

Arrays can be converted to JSON format.

JSON is commonly used for reading data out of a web server and displaying it on a website.

There are integrated functions to manipulate JSON. Most important of them are PHP json\_encode() and PHP json\_decode().

**Example:-**

$conn=new Mysqli('localhost','root','','online\_shop');

$sel="select \* from customers";

$res=$conn->query($sel);

while($r=$res->fetch\_object())

{

$arr[]=$r;

}

//print\_r($arr);

echo $json\_data=json\_encode($arr); // con

echo "<br>";

**EXAMPLE:-**

<?php

$json=file\_get\_contents('https://jsonplaceholder.typicode.com/photos');

// json data convert in php arr

$arr=json\_decode($json); // json econvert to arr

?>

<table border="2" width="80%" align="center">

<tr>

<td>ID</td>

<td>Title</td>

<td>Image</td>

</tr>

<?php

foreach($arr as $d)

{

?>

<tr>

<td><?php echo $d->id;?></td>

<td><?php echo $d->title;?></td>

<td><img src="<?php echo $d->url;?>" width="100px" /></td>

</tr>

<?php

}

?>

</table>