Web services practicals

Q1) Create 'Dynamic Web Project', which will host your web service functionality to greet the user according to server time and create 'Dynamic Web Project', which will host the client application that will send user name and test the web service. Solution:

```
<!php
$dat = new DateTime('now', new DateTimeZone('Asia/Kolkata'));
$date=$dat->format('H');
if($date < 12)
    echo "Good morning to everyone";
else if($date < 17)
    echo "Good afternoon to everyone";
else if($date<20)
    echo "Good evening to everyone";
else
    echo "Good night to everyone";
?>
```

Q2) Create 'Dynamic Web Project', which will host your web service functionality to convert Celsius to Fahrenheit and create 'Dynamic Web Project', which will host the client application that will send Celsius and test the web service. Solution:

```
<?php
$celsius = 17;
$fahrenheit = (($celsius*9)/5)+32;
echo("Temperature in Fahrenheit is: ");
echo($fahrenheit);
?>
```

Q3) Create 'Dynamic Web Project', which will host your web service functionality to find the factorial of given number and create 'Dynamic Web Project', which will host the client application that will send positive integer number and test the web service.

Solution:

```
<?php
$num = 4;
$factorial = 1;
for ($x=$num; $x>=1; $x--)
{
   $factorial = $factorial * $x;
}
echo "Factorial of $num is $factorial";
?>
```

Q8) Create 'Dynamic Web Project', which will host your web service functionality to validate mobile no (use regular expression: should contain only 10 numeric no) and create 'Dynamic Web Project', which will host the client application that will send mobile no and test the web service.

Solution:

```
<html>
<h2><center>Validate mobile number</center></h2>
input type='submit' name='submit' value="Check valid mobile number"></center>
```

```
if(isset($_POST['submit'])){
    $mobileno=$_POST["Mobile_no"];
    if (!preg_match("/^[0-9]*$/",$mobileno) && strlen($mobileno) ===10){
    $ErrMsg="Only numeric value is allowed.";
    echo $ErrMsg;
    }else {
     echo strlen($mobileno);
     echo strlen($mobileno) ==10;
     echo $mobileno;
    }
}

</pod>

</pod>

</pod>

</pod>
```

Q9) Create 'Dynamic Web Project', which will host your web service functionality to convert Rupees to Dollar, Pound, Euro,..... and create 'Dynamic Web Project', which will host the client application that will send amount in Rupees & type of conversion and tests the web service.

Solution:

```
<html>
<head>
<style>
    #box
{
      width:350px;
      height:270px;
      margin:0px auto;
      border:2px solid black;
}
h2{
      text-align: center;
}
table{
      margin:0px auto;
}
</style>
</head>
```

```
Enter Amount:<input type="text" name="amount"><br>
  <br><center>From:<select name='cur1'>
   <option value="INR">INR RUPEES
   <option value="JPY">Japanese Yen(JPY)</option>
   <option value="PHP">Philippine Peso(PHP)</option>
cinput type='submit' name='submit' value="CovertNow"></center>
if(isset($_POST['submit'])){
$amount = $ POST['amount'];
$cur1 = $_POST['cur1'];
```

```
$cur2 = $_FOST['cur2'];

if($cur1=="INR" AND $cur2=="JPY"){
    echo "<center><b>Your Converted Amount is:</b><br></center>";
    echo "<center>" . $amount*8.463 . "</center>";
}

if($cur1=="INR" AND $cur2=="USD"){
    echo "<center><br/>* $amount* 80 . "</center>";
}

if($cur1=="INR" AND $cur2=="USD"){
    echo "<center><br/>" . $amount* 80 . "</center>";
}

if($cur1=="INR" AND $cur2=="PHP"){
    echo "<center><br/>* $amount* 37.15 . "</center>";
}

cho "<center>" . $amount* 37.15 . "</center>";
}
}
```

Q10) Create 'Dynamic Web Project', which will host your web service functionality to give the suggestion for given key word and create 'Dynamic Web Project', which will host the client application that tests the web service.

Solution:

```
</form>
</body>
</html>
```

```
<title>Suggestion for your keyword</title>
larger; font-family: 'Lucida Sans', 'Lucida Sans Regular',
      $keywords = array(
        "apple" => array("fruit", "tech company", "juice"),
        "book" => array("novel", "textbook", "e-book")
      $keyword = $ POST['key word'];
      if (isset($keywords[$keyword])) {
        $suggestions = $keywords[$keyword];
        echo "Suggestions for '$keyword':<br>";
        foreach ($suggestions as $suggestion) {
          echo "- $keyword $suggestion <br>";
        echo "Keyword '$keyword' not found.";
```

Q11) Create 'Dynamic Web Project', which will host your web service functionality to find area and volume of the circle and create 'Dynamic Web Project', which will host the client application that tests the web service.

Solution:

```
</html>
```

Q12) Create 'Dynamic Web Project', which will host your web service functionality to find number of vowels in the given string and create 'Dynamic Web Project', which will host the client application that tests the web service. Solution:

Q13) Create 'Dynamic Web Project', which will host your web service functionality to convert decimal number to Binary, Octal, Hexa Decimal and create 'Dynamic Web Project', which will host the client application that will send decimal number & type of conversion and test the web service.

Solution:

```
auto; text-align: center; margin-top: 100px; font-size:
      function convertNumber($number, $type) {
switch ($type) {
    return dechex($number);
      $type = "";
           $type = $_POST['convert_type'];
      $converted number = convertNumber($number, $type);
      echo "Decimal number: $number"." <br > "." $type: $converted number";
```

Q15) Create 'Dynamic Web Project', which will host your web service functionality for returning book price and create 'Dynamic Web Project', which will host the client application that will send Book Name

```
Solution:
```

```
auto; text-align: center; margin-top: 100px; font-size:
      function getBookPrice($name) {
          $prices = array(
      $book price = getBookPrice($book name);
```