

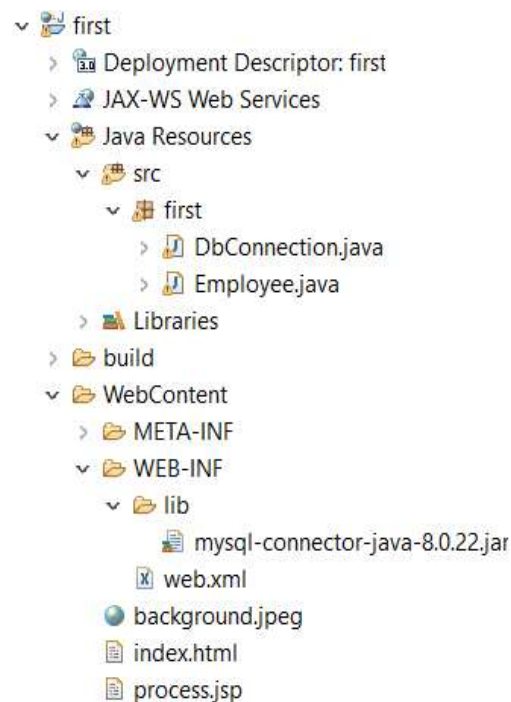
WPS ASSIGNMENT 3

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Question 1.

Write a JSP program to retrieve name, image of the person, date of birth based on the empid using useBean tag.

Project Structure



File Name: Index.html

```
<%@ page import="first.Employee" language="java" contentType="text/html;
charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<jsp:useBean id="u" class="first.Employee"></jsp:useBean>
<jsp:setProperty property="empid" name="u"/>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min
.css">
</head>
<body style="background-image: url('background.jpeg');background-size: cover;">
    <div class="container" >
```

```

        <div class="card-panel" style="background-color: black;margin-top:
20vh;">
            <div class="row">
                <div class="col l2"></div>
                <div class="col l4">
                    <pre class="yellow-text">
Profile</pre><br>
                    
                </div>
                <div class="col l4">
                    <br><br><br><br><br><br><br>
                    <pre class="yellow-text">Employee Name --->
${u.getName()}</pre><br>
                    <pre class="yellow-text">Date of Birth --->
${u.getDob()}</pre><br>
                </div>
            </div>
        </div>
    </body>
</html>

```

File Name: Process.jsp

```

<%@ page import="first.Employee" language="java" contentType="text/html;
charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<jsp:useBean id="u" class="first.Employee"></jsp:useBean>
<jsp:setProperty property="empid" name="u"/>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min
.css">
</head>
<body style="background-image: url('background.jpeg');background-size: cover;">
    <div class="container" >
        <div class="card-panel" style="background-color: black;margin-top:
20vh;">
            <div class="row">
                <div class="col l2"></div>
                <div class="col l4">
                    <pre class="yellow-text">
Profile</pre><br>
                    
                </div>
                <div class="col l4">
                    <br><br><br><br><br><br><br>
                    <pre class="yellow-text">Employee Name --->
${u.getName()}</pre><br>
                    <pre class="yellow-text">Date of Birth --->
${u.getDob()}</pre><br>
                </div>
            </div>
        </div>
    </body>
</html>

```

```

        </div>
    </div>
</div>
</body>
</html>

```

File Name: Employee.java

```

package first;
import java.io.IOException;
import java.io.*;
import java.sql.Blob;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Base64;
import java.util.*;

import javax.servlet.ServletException;

public class Employee {
    private String name;
    private int empid;
    private String dob;
    private String photo;
    public void setEmpid(int empid) {
        Connection con=new DbConnection().connect();
        Statement stmt;
        try
        {
            stmt=con.createStatement();
            String sql="Select name,photo,dob from employee where
employee.id="+empid+";";
            ResultSet rs=stmt.executeQuery(sql);
            if(!rs.next())
                System.out.print("error");
            name=rs.getString(1);
            dob=rs.getString(3);
            Blob blob = rs.getBlob(2);
            InputStream inputStream = blob.getBinaryStream();
            ByteArrayOutputStream outputStream = new
ByteArrayOutputStream();
            byte[] buffer = new byte[4096];
            int bytesRead = -1;
            while ((bytesRead = inputStream.read(buffer)) != -1) {
                outputStream.write(buffer, 0, bytesRead);
            }
            byte[] imageBytes = outputStream.toByteArray();
            photo = Base64.getEncoder().encodeToString(imageBytes);
            inputStream.close();
            outputStream.close();
            System.out.print(rs.getString(1)+"hello");
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}

```

```

        System.out.print(empid);
    }
    public String getName() {
        return name;
    }

    public String getDob() {
        return dob;
    }

    public String getPhoto()
    {
        return photo;
    }
}

```

File Name: DbConnection.java

```

package first;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

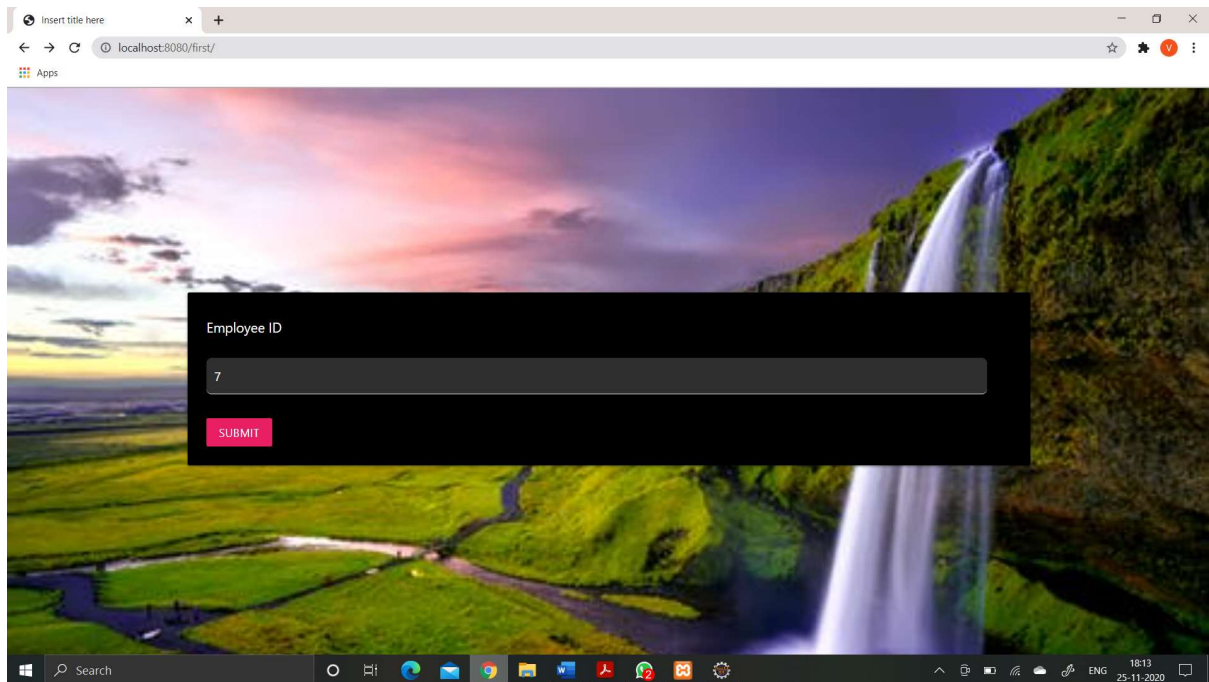
public class DbConnection {

    public Connection connect() {
        String url =
"jdbc:mysql://localhost:3306/test?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC";
        String username = "root";
        String password = "";
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection(url,username,password);
            System.out.print("errors");
            return con;
        }
        catch(Exception ex)
        {
            System.out.print("error");
            ex.printStackTrace();
            return null;
        }
    }
}

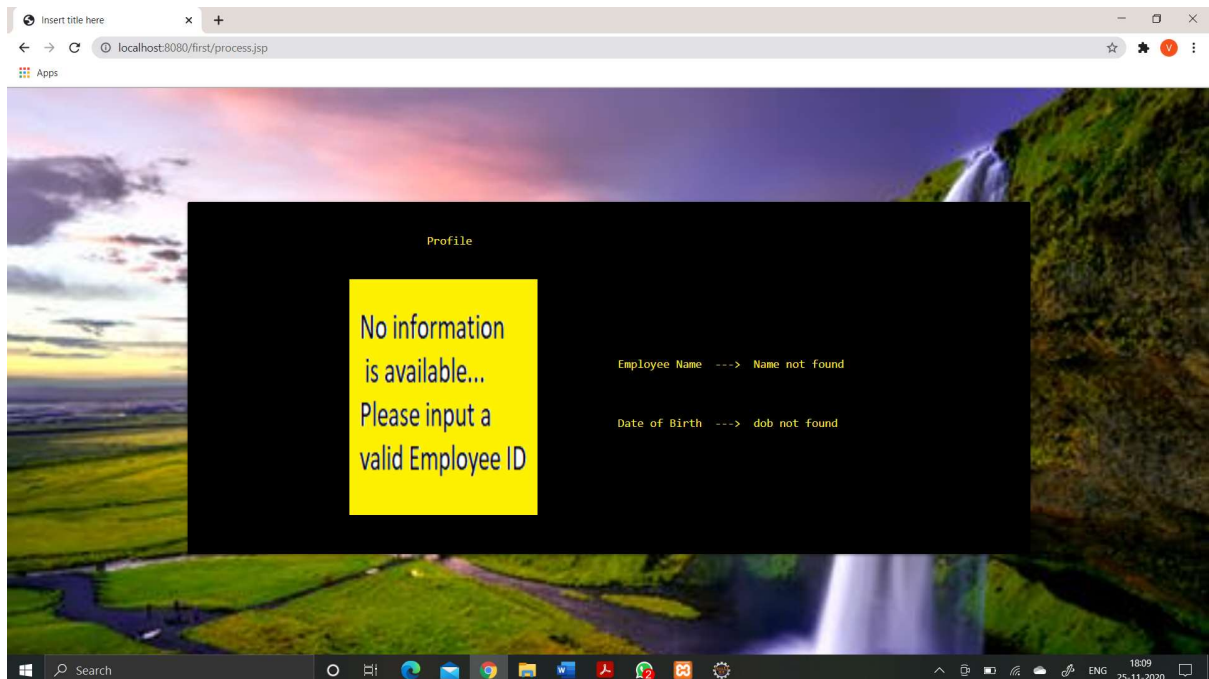
```

Output

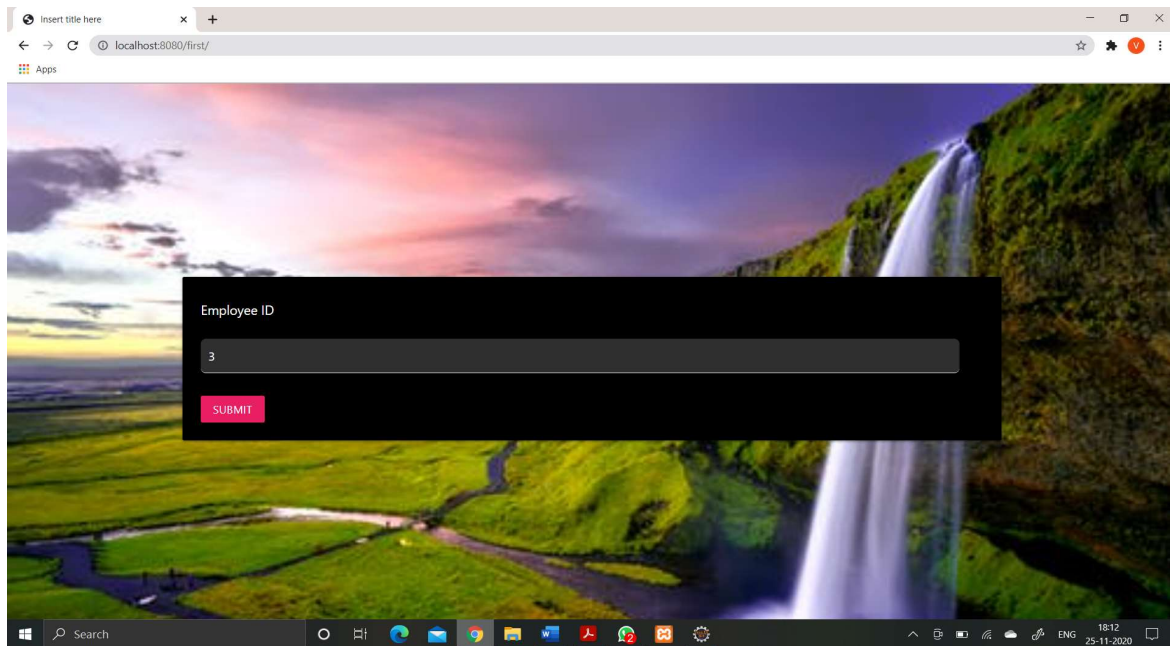
Index Page



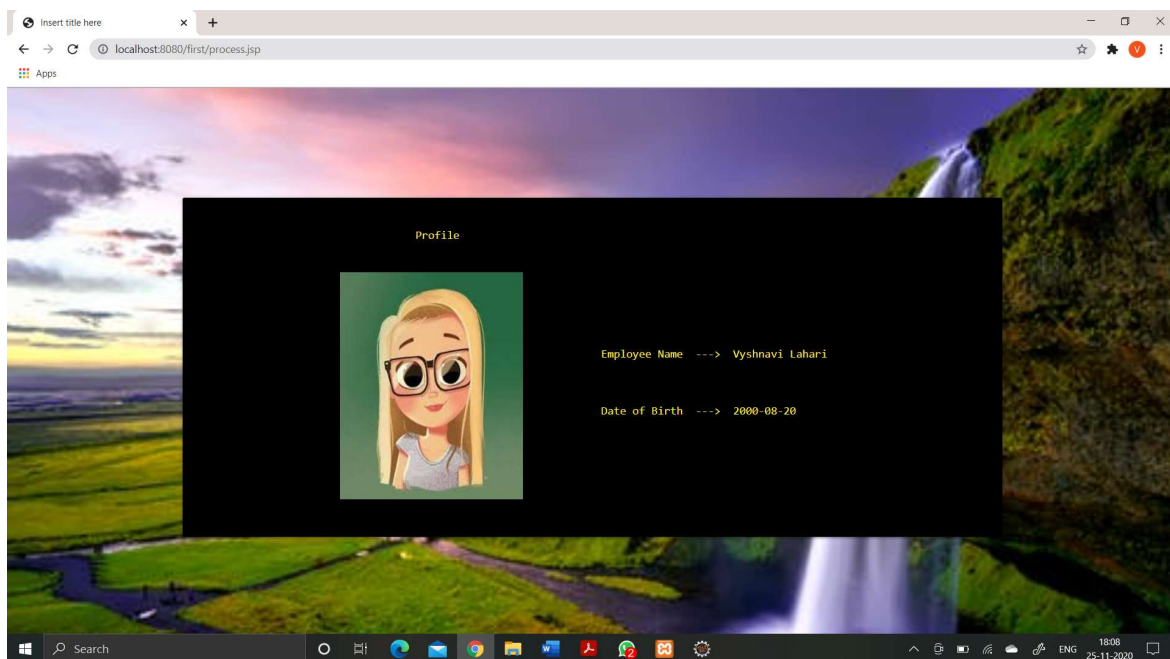
Employee ID is to be entered...



If no employee is present in the database with the given ID above output can be seen...



Again if we input a valid ID (This time employee ID 3 is present in the database)...



Above output can be seen with valid Employee Name, Date of Birth and Profile photo...

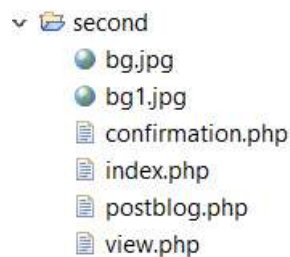
Employee Table

		name	photo	dob	id
<input type="checkbox"/>	Edit	Copy	Delete	Tekula Hemanth Reddy	[BLOB - 6.9 KiB] 2021-03-06 1
<input type="checkbox"/>	Edit	Copy	Delete	Karthik Kalitkar	[BLOB - 84.4 KiB] 2020-10-23 2
<input type="checkbox"/>	Edit	Copy	Delete	Vyshnavi Lahari	[BLOB - 6.2 KiB] 2000-08-20 3

Question 2.

Create a web application with PHP, the main page (editing) must provide input options for entering the title and contents of a new blog post, a "preview" button and a list of existing posts. Pressing the preview button brings up a page showing the new post, with date. This page has a radio or checkbox input indicating whether to accept the post and a "Continue" button. Pressing the continue button returns to the entry page. If the previewed post was accepted, the post now appears in the list of posts. The posts must be saved in database.

Project Structure



File Name: index.php

```
<?php
if (!isset($_POST['preview']))
    header("Location: index.php");
$title = $_POST['title'];
$body = $_POST['body'];

?>
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, user-
scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/
dist/css/bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkGIXeMed4M0jlfIDPvg6uqKI2xXr2" crossorigin=
"anonymous">
    <title>Document</title>
</head>

<body style="background-image: url('bg.jpg');background-repeat: no-
repeat;background-size: cover;" >
    <br>
```

```

<br><br>
<div class="container">
    <h2><?php echo $title; ?></h2>
    <p><?php echo date("l jS \of F Y h:i:s A"); ?></p>
    <div><?php echo $body; ?></div>

    <form method="post" action="postblog.php">
        <input value="<?php echo $title; ?>" name="title" type="hidden">
        <input value="<?php echo $body; ?>" name="body" type="hidden">
        <p>
            <label>
                <input type="checkbox" class="filled-
in" name="confirmation" />
                <span>Confirm blog</span>
            </label>
        </p>
        <button class="btn " type="submit" style="background-
color: #d81b60;color:white">Save Blog</button><br>
    </form>
</div>
<script src="https://code.jquery.com/jquery-
3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin=
"anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstra
p.bundle.min.js" integrity="sha384-
ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtN/tE3MoK7ZeZDyx" crossorigin=
"anonymous"></script>
</body>

</html>

```

File Name: postblog.php

```

<?php
$conn = mysqli_connect("localhost", "root", "", "test");
if (!$conn) {
    echo "connection failed";
} else {
    if ($_POST["confirmation"]) {
        $title = htmlspecialchars($_POST["title"], ENT_QUOTES);
        $body= htmlspecialchars($_POST["body"], ENT_QUOTES);
        echo $body;
        $sql = "INSERT INTO blog (title,body) VALUES ('$title','$body')";
        if ($conn->query($sql) === TRUE) {
            echo "New record created successfully";
        } else {

```



```

        echo "Error: " . $sql . "<br>" . $conn->error;
    }
    $conn->close();
}
header("Location: index.php");
}

?>

```

File Name: view.php

```

<?php

function base64_url_decode($input)
{
    return base64_decode(strtr($input, '-_', '+/'));
}

$conn = mysqli_connect("localhost", "root", "", "test");
$blog = null;
if (!$_GET['id'])
    header("Location: index.php");
$id = base64_decode($_GET['id']);
if (!$conn) {
    echo "connection failed";
} else {
    $sql = "SELECT * from blog where id=$id";
    $result = mysqli_query($conn, $sql);
    if ($result) {
        if (mysqli_num_rows($result) > 0)
            $blog = mysqli_fetch_assoc($result);
        else
            echo "Blog Not found";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
    $conn->close();
}

?>
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, user-
scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/
dist/css/bootstrap.min.css" integrity="sha384-

```

```

TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkGIXeMed4M0jlfIDPvg6uqKI2xXr2" crossorigin=
"anonymous">
    <title>Document</title>
</head>

<body style="background-image: url('bg.jpg');background-repeat: no-
repeat;background-size: cover;">
    <br>
    <br>
    <div class="container">
        <h2><?php echo htmlspecialchars_decode($blog['title']); ?></h2>

        <p><?php echo htmlspecialchars_decode($blog['body']); ?></p>
        <br>
        <a href="index.php" class="btn " style="background-
color: #d81b60;color:white">Back to Home</a>
    </div>

    <script src="https://code.jquery.com/jquery-
3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin=
"anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstra
p.bundle.min.js" integrity="sha384-
ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtn/tE3MoK7ZeZDyx" crossorigin=
"anonymous"></script>
</body>

</html>

```

File Name: confirmation.php

```

<?php
if (!isset($_POST['preview']))
    header("Location: index.php");
$title = $_POST['title'];
$body = $_POST['body'];

?>
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, user-
scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">

```

```

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/
dist/css/bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" crossorigin=
"anonymous">
    <title>Document</title>
</head>

<body style="background-image: url('bg.jpg');background-repeat: no-
repeat;background-size: cover;" >
    <br>
    <br><br>
    <div class="container">
        <h2><?php echo $title; ?></h2>
        <p><?php echo date("l jS \of F Y h:i:s A"); ?></p>
        <div><?php echo $body; ?></div>

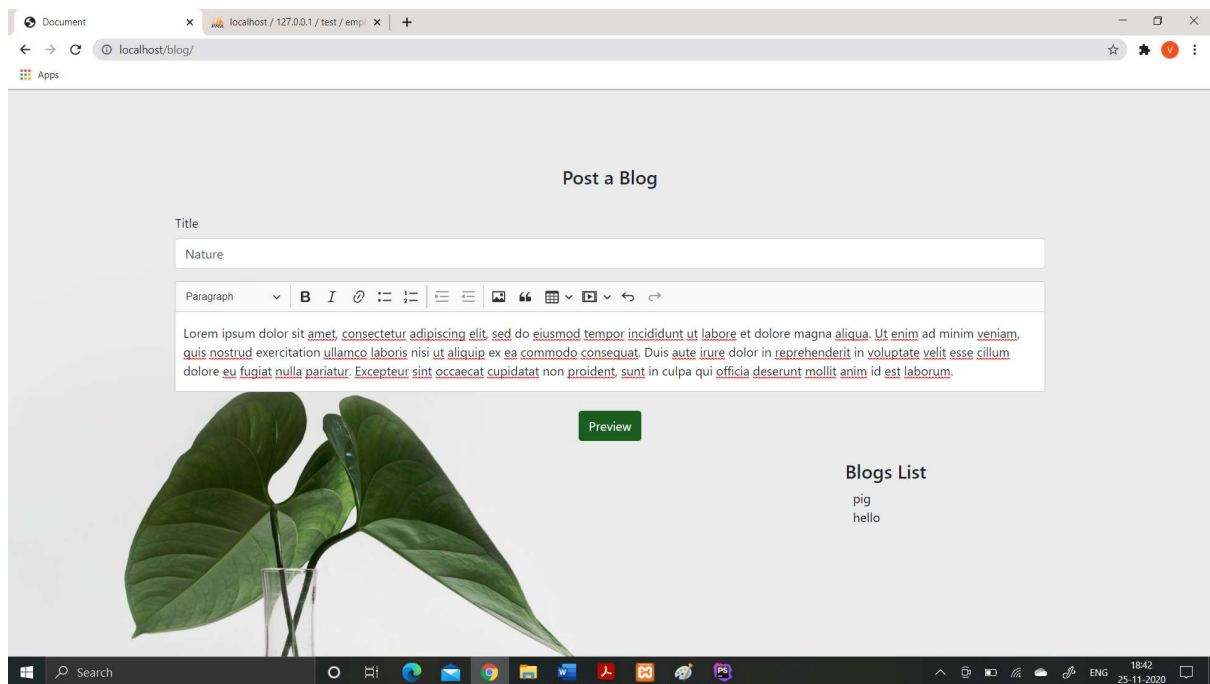
        <form method="post" action="postblog.php">
            <input value="<?php echo $title; ?>" name="title" type="hidden">
            <input value="<?php echo $body; ?>" name="body" type="hidden">
            <p>
                <label>
                    <input type="checkbox" class="filled-
in" name="confirmation" />
                    <span>Confirm blog</span>
                </label>
            </p>
            <button class="btn " type="submit" style="background-
color: #d81b60;color:white">Save Blog</button><br>
        </form>
    </div>
    <script src="https://code.jquery.com/jquery-
3.5.1.slim.min.js" integrity="sha384-
DfxDz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin=
"anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstra
p.bundle.min.js" integrity="sha384-
ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtN/tE3MoK7ZeZDyx" crossorigin=
"anonymous"></script>
</body>

</html>

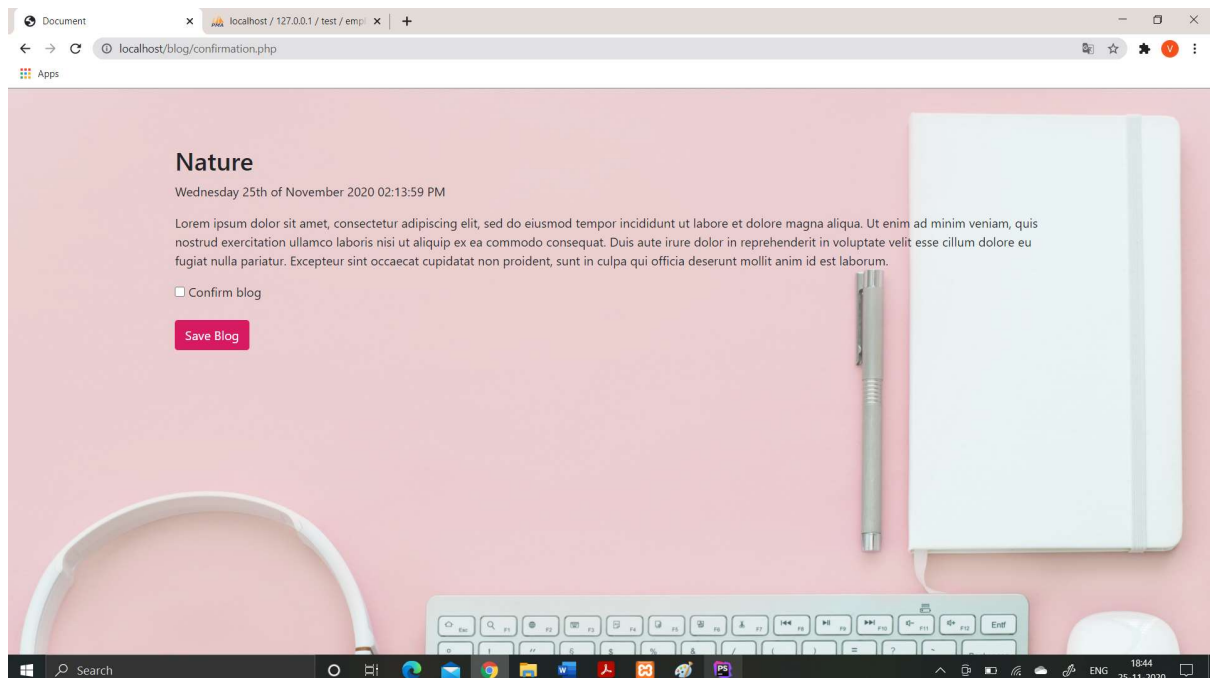
```

Output

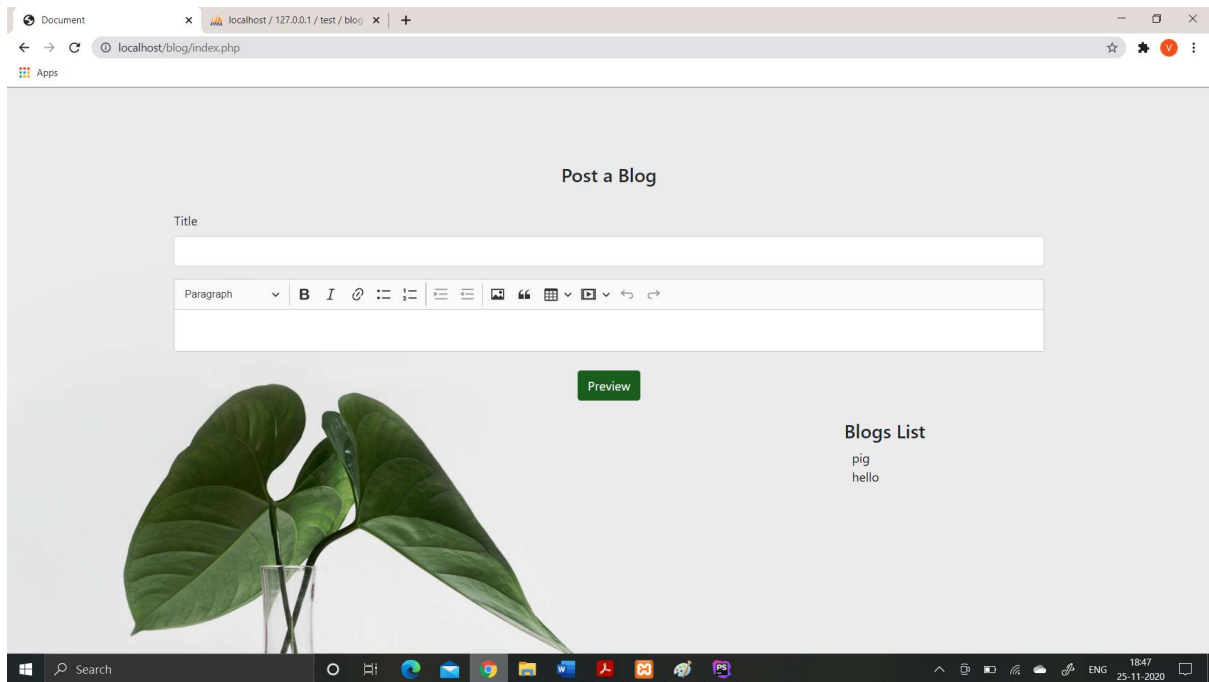
Index Page



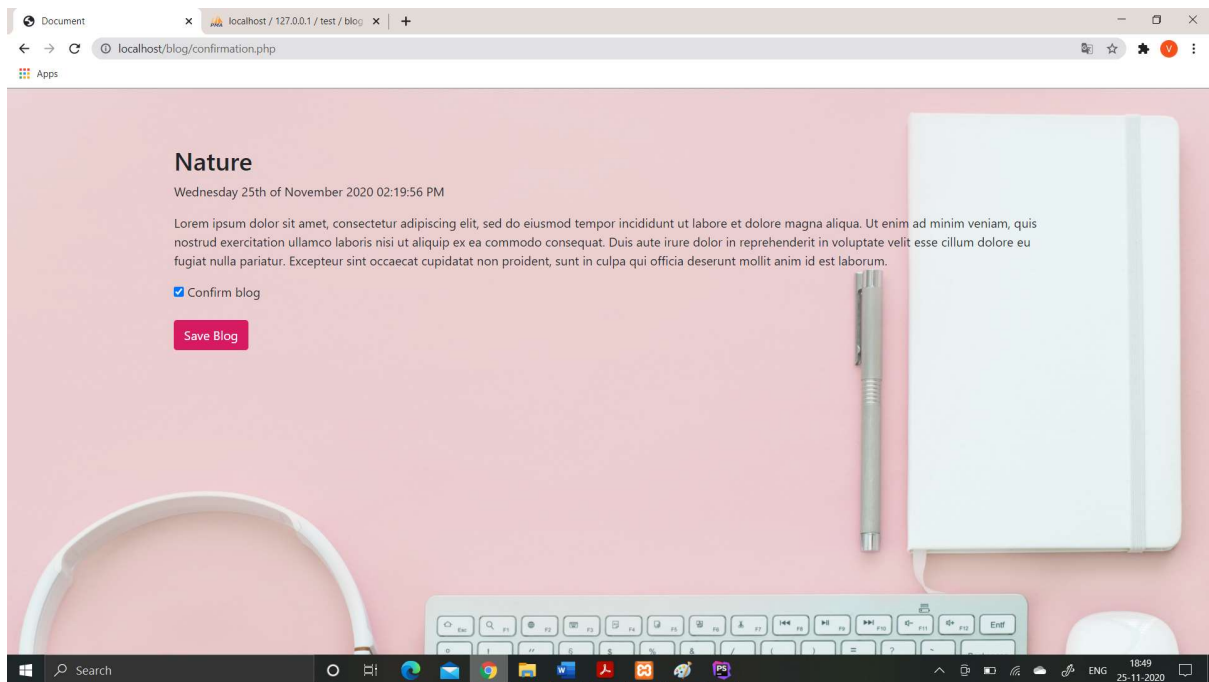
Here we can post a blog and view the list of blogs... If we click preview below page can be seen...



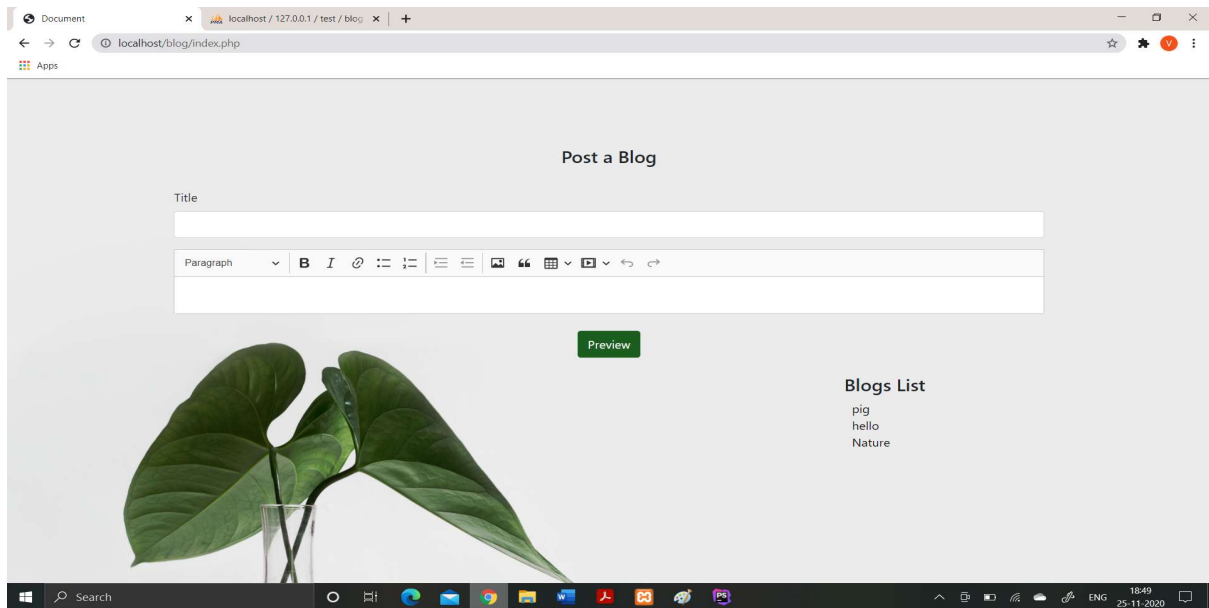
Here we can proof read our blog and decide whether to save it or not. If we don't check the Confirm blog checkbox the blog will not be saved and vice versa...



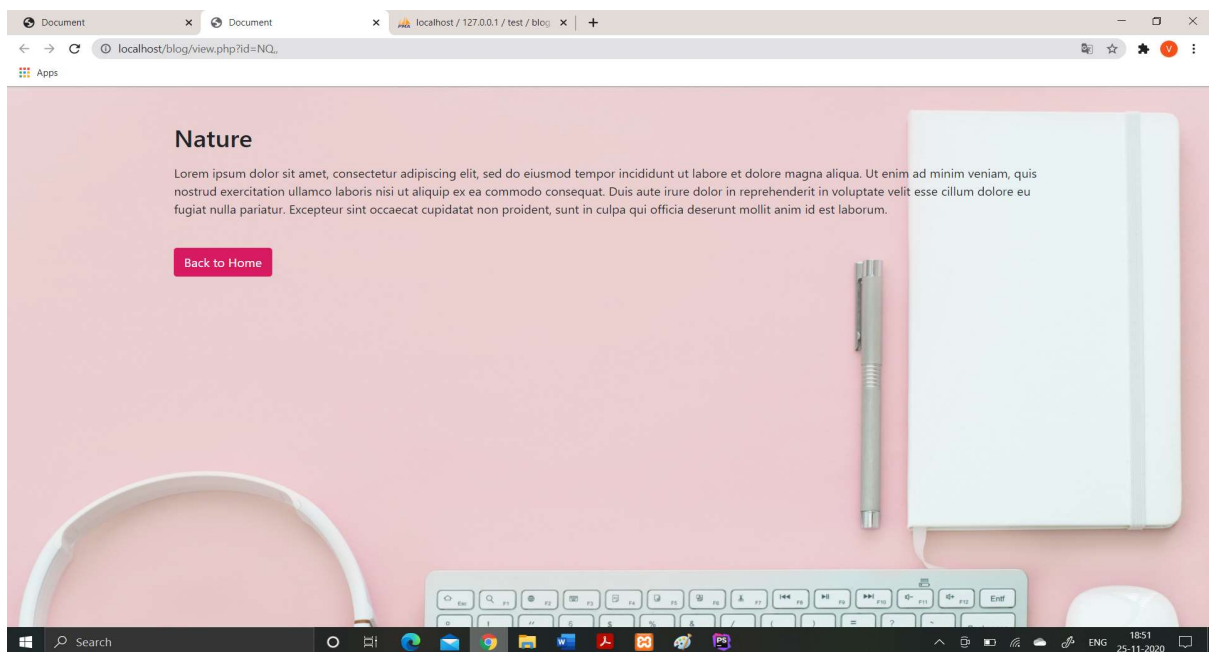
Since we did not check the confirm blog check box we can see our post in blogs list...



This time we are checking the Confirm blog checkbox...



Hence our blog (Nature) is stored in the database and can be seen in the Blogs List... If we click on Nature in Blogs List below output can be seen...



Here we can read blogs which are present in the database... If we click Back to Home button we will be directed to index page...

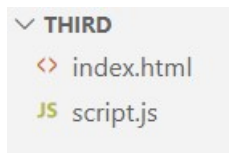
Blogs Table

		title	body	id
<input type="checkbox"/>	Edit	Copy	Delete	pig
				dog
				1
<input type="checkbox"/>	Edit	Copy	Delete	hello
				<p>cat</p>
				2
<input type="checkbox"/>	Edit	Copy	Delete	Nature
				<p>Lorem ipsum dolor sit amet, consectetur a...
				5

Question 3.

Create a web service client to consume a rest based service hosted at <https://reqres.in/api/register> to read the users data.

Project Structure



File Name: index.html

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min.css">
  <title>Document</title>
</head>
<body style="background-color: black">
  <div class="container">
    <div class="card-panel" style="margin-top: 15vh;">
      <table class="centered highlight striped" id="data">
      </table>
    </div>
  </div>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.js"></script>
  <script src="script.js"></script>
</body>
</html>
```

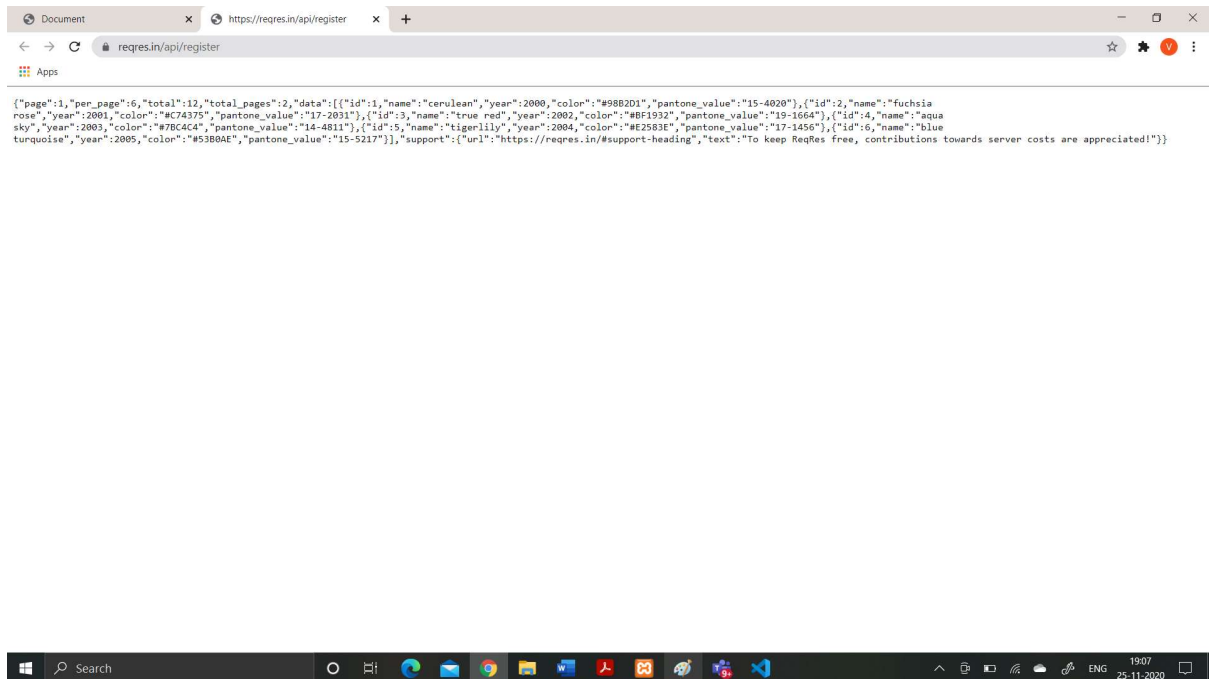
File Name: script.js

```
let url="https://reqres.in/api/register";
async function getData(url)
{
  let re=await fetch(url);
  res=await re.json();
  console.log(res);
  putData(res);
}

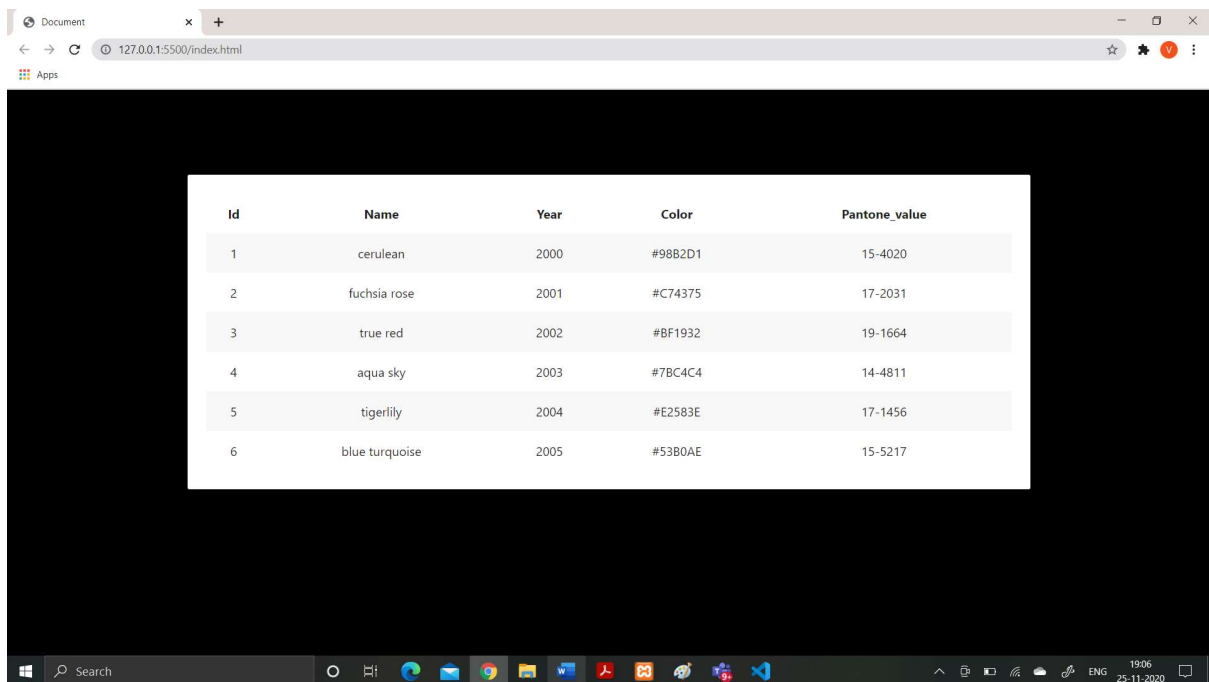
getData(url);
```

```
function putData(res)
{
    let table=`<thead><tr>
        <th>Id</th>
        <th>Name</th>
        <th>Year</th>
        <th>Color</th>
        <th>Pantone_value</th>
    </tr></thead><tbody>`;
    for(let elem of res.data)
    {
        table+=`<tr>
            <td>${elem.id}</td>
            <td>${elem.name}</td>
            <td>${elem.year}</td>
            <td>${elem.color}</td>
            <td>${elem.pantone_value}</td>
        </tr>
        `;
    }
    table+=`</tbody>`;
    document.getElementById('data').innerHTML=table;
}
```

Data in given rest based service hosted at <https://reqres.in/api/register>



Output



All the data present in the given api is fetched and displayed...

