ARUNIMA SINGH THAKUR

180905218

31, C, CSE

IT LAB 5

3RD MAY 2021

Question1:

studentapp/views.py

```python
from django.shortcuts import render
from django.http import HttpResponse


def index(request):
    return render(request, 'index.html')
```

studentapp/urls.py

```python
from django.urls import path

from . import views

urlpatterns = [
    path('', views.index, name='index'),
]
```

/urls.py

```python
from django.contrib import admin
from django.urls import include, path

urlpatterns = [
    path('', include('studentapp.urls')),
    path('admin/', admin.site.urls),
]
```

studentapp/templates/index.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Student App</title>
  </head>
  <body>
    <h1>Student App</h1>
    <div id="container">
      <form id="student-form">
        <input type="text" id="name" placeholder="Name" />
        <input type="email" id="email" placeholder="Email" />
        <label for="dob">Date of birth:</label>
        <input type="date" id="dob" />
        <label for="address">Address</label>
        <textarea id="address" form="student-form"></textarea>
        <label for="eng">English Marks: </label>
        <input type="number" id="eng" placeholder="English" />
        <label for="phy">Physics Marks: </label>
        <input type="number" id="phy" placeholder="Physics" />
        <label for="chem">Chemistry Marks: </label>
        <input type="number" id="chem" placeholder="Chemistry" />
        <button id="submit-btn" type="submit">Submit</button>
      </form>
      <div id="results"></div>
    </div>
    <script>
      document
        .getElementById("submit-btn")
        .addEventListener("click", function (event) {
          event.preventDefault();
          results();
        });
      function results() {
        console.log("lmao");
        const resultDiv = document.getElementById("results");
        while (resultDiv.firstChild) {
          resultDiv.removeChild(resultDiv.lastChild);
        }
```

```
    let name = document.createElement("h2");
    name.innerHTML = document.getElementById("name").value;
    let email = document.createElement("h3");
    email.innerHTML = document.getElementById("email").value;
    let dob = document.createElement("h3");
    dob.innerHTML = document.getElementById("dob").value;
    let address = document.createElement("h4");
    address.innerHTML = document.getElementById("address").value;
    let eng = document.createElement("p");
    eng.innerHTML = `English: ${document.getElementById("eng").value}`;
    let phy = document.createElement("p");
    phy.innerHTML = `Physics: ${document.getElementById("phy").value}`;
    let chem = document.createElement("p");
    chem.innerHTML = `Chemistry: ${document.getElementById("chem").value}`;

    resultDiv.appendChild(name);
    resultDiv.appendChild(email);
    resultDiv.appendChild(dob);
    resultDiv.appendChild(address);
    resultDiv.appendChild(eng);
    resultDiv.appendChild(phy);
    resultDiv.appendChild(chem);
  }
</script>
<style>
 #container {
   display: flex;
   flex-direction: row;
 }
 #results {
   flex: 1;
   flex-grow: 1;
 }
 form {
   flex: 1;
   display: flex;
   flex-direction: column;
   width: 50%;
   margin-right: 16px;
 }
 input,
 textarea,
 button {
   padding: 8px;
   margin-bottom: 16px;
```

```
    }
    label {
      margin-bottom: 4px;
    }
  </style>
 </body>
</html>
```

Enter name: Arunima
Enter DOB: 04-05-2021
Enter Address: 123 Park Road
Enter Contact Number: 9876543210
Enter Email: 123abc@gmail.com
Enter English marks: 90
Enter Physics marks: 89
Enter Chemistry marks: 78
Submit

- Name: Arunima DOB :2021-05-04 Address :123 Park Road Pno :9876543210 Email :123abc@gmail.com Average Marks :85.66666666666667

Question 2

employeeapp/views.py

```
from django.shortcuts import render
from django.http import HttpResponse
```

```python
def index(request):
    return render(request, 'index.html')
```

employeeapp/urls.py

```python
from django.urls import path

from . import views

urlpatterns = [
    path('', views.index, name='index'),
]
```

/urls.py

```python
from django.contrib import admin
from django.urls import include, path

urlpatterns = [
    path('', include('studentapp.urls')),
    path('admin/', admin.site.urls),
]
```

employeeapp/templates/index.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Employee App</title>
  </head>
  <body>
    <h1>Employee App</h1>
    <div id="container">
      <form id="student-form">
        <label for="employees">Employee ID</label>
        <select name="employees" id="employees">
          <option value="1">1</option>
          <option value="2">2</option>
          <option value="3">3</option>
          <option value="4">4</option>
          <option value="5">5</option>
```

```html
      </select>
      <label for="doj">Date of joining:</label>
      <input type="date" id="doj" />
      <button id="submit-btn" type="submit">
        Am I Eligibile for Promotion?
      </button>
    </form>
    <div id="results"></div>
  </div>
  <script>
    document
      .getElementById("submit-btn")
      .addEventListener("click", function (event) {
        event.preventDefault();
        results();
      });
    function results() {
      console.log("lmao");
      const resultDiv = document.getElementById("results");
      while (resultDiv.firstChild) {
        resultDiv.removeChild(resultDiv.lastChild);
      }

      let id = document.getElementById("employees").value;
      let doj = new Date(document.getElementById("doj").value);

      let yearsDiff = new Date().getFullYear() - doj.getFullYear();

      if (yearsDiff >= 5) {
        document.getElementById("submit-btn").innerHTML = "YES";
      } else {
        document.getElementById("submit-btn").innerHTML = "NO";
      }
    }
  </script>
  <style>
    #container {
      display: flex;
      flex-direction: row;
    }
    #results {
      flex: 1;
      flex-grow: 1;
    }
    form {
```

```
      flex: 1;
      display: flex;
      flex-direction: column;
      width: 50%;
      margin-right: 16px;
    }
    input,
    textarea,
    button {
      padding: 8px;
      margin-bottom: 16px;
    }
    label {
      margin-bottom: 4px;
    }
  </style>
 </body>
</html>
```

Employee App   ✕   +

←   →   C   ⌂   ○ 🔒 localhost:8000

🔖 Import bookmarks... 🦊 Getting Started 📁 React

Employee App

Employee ID

| 3 | ⌄ |

Date of joining:

| 16 / 02 / 2020 | ⊗ |

| NO |

Question 3:

calculator/views.py

```
from django.shortcuts import render
from django.http import HttpResponse
```

```python
def index(request):
    return render(request, 'index.html')
```

calculator/urls.py

```python
from django.urls import path

from . import views

urlpatterns = [
    path('', views.index, name='index'),
]
```

/urls.py

```python
from django.contrib import admin
from django.urls import include, path

urlpatterns = [
    path('', include('studentapp.urls')),
    path('admin/', admin.site.urls),
]
```

calculator/templates/index.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Calculator App</title>
  </head>
  <body>
    <h1>Calculator App</h1>
    <div id="container">
      <form id="student-form">
        <label for="operation">Operation</label>
        <select name="operation" id="operation">
          <option value="add">Add</option>
          <option value="sub">Subtract</option>
          <option value="mul">Multiply</option>
          <option value="div">Divide</option>
        </select>
```

```html
      <label for="op1">Operand 1</label>
      <input type="number" id="op1" placeholder="Operand 1" />
      <label for="op2">Operand 2</label>
      <input type="number" id="op2" placeholder="Operand 2" />
      <button id="submit-btn" type="submit">Calculate</button>
    </form>
    <div id="results"></div>
  </div>
  <script>
    document
      .getElementById("submit-btn")
      .addEventListener("click", function (event) {
        event.preventDefault();
        results();
      });
    function results() {
      console.log("lmao");
      const resultDiv = document.getElementById("results");
      while (resultDiv.firstChild) {
        resultDiv.removeChild(resultDiv.lastChild);
      }

      let op1 = Number(document.getElementById("op1").value);
      let op2 = Number(document.getElementById("op2").value);

      let operator = document.getElementById("operation").value;
      let ans = null;
      switch (operator) {
        case "add":
          ans = document.createElement("h1");
          ans.innerHTML = `Answer: ${op1 + op2}`;
          document.getElementById("results").appendChild(ans);
          break;
        case "sub":
          ans = document.createElement("h1");
          ans.innerHTML = `Answer: ${op1 - op2}`;
          document.getElementById("results").appendChild(ans);
          break;
        case "mul":
          ans = document.createElement("h1");
          ans.innerHTML = `Answer: ${op1 * op2}`;
          document.getElementById("results").appendChild(ans);
          break;
        case "div":
          ans = document.createElement("h1");
```

```
          ans.innerHTML = `Answer: ${op1 / op2}`;
          document.getElementById("results").appendChild(ans);
          break;
        case "default":
          break;
      }
    }
  </script>
  <style>
    #container {
      display: flex;
      flex-direction: row;
    }
    #results {
      flex: 1;
      flex-grow: 1;
    }
    form {
      flex: 1;
      display: flex;
      flex-direction: column;
      width: 50%;
      margin-right: 16px;
    }
    input,
    textarea,
    button {
      padding: 8px;
      margin-bottom: 16px;
    }
    label {
      margin-bottom: 4px;
    }
  </style>
 </body>
</html>
```

Calculator App

Operation

| Subtract | ⌄ |

Operand 1

| 2 | ⇕ |

Operand 2

| 3 | ⇕ |

| Calculate |

Answer: -1