

Name: Vinayak Kumar Singh

Subject: Full Stack Lab

Register No: 23MCA1030

Date: 05-09-2023

Exercise 6: DOM

Design a queue system for a play area in a mall. The webpage of the play area must have a textbox to enter the name of the child entering the play area. On clicking the button enter the name must be displayed in webpage in a <h3> tag. Add some names. Then create another button "exit" that deletes the top most name. Perform the above using DOM.

```
<!DOCTYPE html>
<html>
<head>
  <title>Play Area Queue</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
    }
    h1 {
      background-color: #007bff;
      color: white;
      padding: 10px;
    }
    b {
      font-size: 20px;
    }
    input[type="text"] {
      padding: 5px;
      width: 200px;
      font-size: 16px;
    }
    button {
      padding: 5px 10px;
      font-size: 16px;
    }
    #queue_display {
      margin-top: 20px;
      font-size: 20px;
    }
  </style>
</head>
<body>
  <h1>Play Area Queue</h1>
  <b>Name:</b> Vinayak Kumar Singh
```

```
<br><br>
<b>Register No:</b> 23MCA1030
<br><br>
<input type="text" id="childName" placeholder="Enter Child Name">
<br><br>
<button onclick="addToQueue()">Enter</button>
<button onclick="exitQueue()">Exit</button>
<h3 id="queueDisplay"></h3>

<script>
  let queue = [];

  function addToQueue() {
    const childNameInput = document.getElementById("childName");
    const name = childNameInput.value.trim();

    if (name !== "") {
      queue.push(name);
      updateQueueDisplay();
      childNameInput.value = "";
    }
  }

  function exitQueue() {
    if (queue.length > 0) {
      queue.shift();
      updateQueueDisplay();
    }
  }

  function updateQueueDisplay() {
    const queueDisplay = document.getElementById("queueDisplay");
    queueDisplay.textContent = "Queue: " + queue.join(", ");
  }
</script>
</body>
</html>
```

Output:

Play Area Queue

Name: Vinayak Kumar Singh

Register No: 23MCA1030

Enter Child Name

Enter Exit

Queue: Aman, Vinayak, Dheeraj, Raj, Sanjay

After 2 Child Exit Play Area Queue:

Play Area Queue

Name: Vinayak Kumar Singh

Register No: 23MCA1030

Enter Child Name

Enter Exit

Queue: Dheeraj, Raj, Sanjay

END