Title: Write Java script program to demonstrate event delegation and DOM manipulation.

Problem description: Consider an HTML file with as parent and element as child elements. Let handle events that occur on Perform the operations like creating node, removing the node, accessing the node etc.

Method: Add event listener to element. Use event object to know which generated event.

```
<!DOCTYPE html>
<html>
<head>
<title>Event Delegation & DOM Manipulation</title>
<style>
        li
        {
              cursor: pointer;
              margin: 5px;
              padding: 5px;
              background: #eee;
         }
</style>
</head>
<body>
<h2>Event Delegation & DOM Manipulation Example</h2>
Item 1
       Item 2
       Item 3
<button id="addBtn">Add Item</button>
<button id="removeBtn">Remove Last Item</button>
<button id="accessBtn">Access 1st Item</button>
<script>
 const parentList = document.getElementById("parentList");
 const output = document.getElementById("output");
 // Event Delegation: parent  handles clicks on 
 parentList.addEventListener("click", function(event) {
  if (event.target && event.target.nodeName === "LI")
   output.textContent = "You clicked on: " + event.target.textContent;
 });
 // Create node
 document.getElementById("addBtn").addEventListener("click", function() {
  let newItem = document.createElement("Ii");
  newItem.textContent = "New Item" + (parentList.children.length + 1);
  parentList.appendChild(newItem);
});
```

```
// Remove node
  document.getElementById("removeBtn").addEventListener("click", function() {
   if (parentList.lastElementChild)
    parentList.removeChild(parentList.lastElementChild);
   }
   else
   {
    output.textContent = "No items left to remove!";
   }
  });
  // Access node
  document.getElementById("accessBtn").addEventListener("click", function() {
   if (parentList.firstElementChild)
  {
    output.textContent = "First item is: " + parentList.firstElementChild.textContent;
   }
  else
  {
    output.textContent = "List is empty!";
   }
  });
 </script>
</body>
</html>
```