

**6.a) write a program to embed internal and external javascript in a web page.**

script.js

```
// script.js
```

```
function showAlertExternal() {  
    alert('This is an external JavaScript alert!');  
}
```

**HTML FILE**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-  
width, initial-scale=1.0">
```

```
<title>Embedding Internal and External  
JavaScript</title>
```

```
<script src="script.js"></script> <!-- Link to  
external JavaScript file -->
```

```
<script>
```

```
// Internal JavaScript
```

```
function showAlertInternal() {  
    alert('This is an internal JavaScript alert!');  
}
```

```
</script>

</head>

<body>

  <h1>Embedding Internal and External
  JavaScript</h1>

  <button onclick="showAlertInternal()">Internal
  JavaScript Alert</button>

  <button onclick="showAlertExternal()">External
  JavaScript Alert</button>

</body>

</html>
```

### Explanation:

1. **External JavaScript:**
  - The external JavaScript file `script.js` contains a function `showAlertExternal` that displays an alert when called.
  - The HTML file links to this external JavaScript file using the `<script src="script.js"></script>` tag in the `<head>` section.
2. **Internal JavaScript:**
  - The internal JavaScript is included directly within the HTML file inside a `<script>` tag in the `<head>` section.
  - The internal JavaScript contains a function `showAlertInternal` that displays an alert when called.
3. **HTML Content:**
  - The HTML body contains two buttons. Each button has an `onclick` attribute that calls one of the JavaScript functions.
  - The first button calls the `showAlertInternal` function, demonstrating the use of internal JavaScript.
  - The second button calls the `showAlertExternal` function, demonstrating the use of external JavaScript.

### How to Run:

1. Save the external JavaScript code in a file named `script.js`.
2. Save the HTML code in a file named `index.html`.
3. Open `index.html` in a web browser.
4. Click the buttons to see alerts triggered by the internal and external JavaScript functions.



**6.b) write a program to explain the different ways for displaying output.**

```
<html>  
  <body>  
    <h1>Output</h1>  
    <p id="output"></p>  
    <script src="script.js"></script>  
  </body>  
</html>
```

### **Script.js**

**// Method 1: Using alert() function**

```
alert("Hello, World!");
```

**// Method 2: Using document.write() function**

```
document.write("Hello, World! <br>");
```

**// Method 3: Using console.log() function**

```
console.log("Hello, World!");
```

**// Method 4: Using innerHTML property**

```
let output = document.getElementById("output");  
output.innerHTML = "Hello, World!";
```

**// Method 5: Using prompt() function**

```
let name = prompt("What is your name?");  
document.write("Hello, " + name + "!!");
```

**// Method 6: Using confirm() function**

```
let response = confirm("Are you sure?");  
if (response) {  
    document.write("You clicked OK!");  
} else {  
    document.write("You clicked Cancel!");  
}
```

- 1. alert() function: Displays a pop-up alert box with the specified message.**
- 2. document.write() function: Writes the specified message to the HTML document.**
- 3. console.log() function: Writes the specified message to the browser's console.**
- 4. innerHTML property: Sets the HTML content of an element with the specified ID.**
- 5. prompt() function: Displays a pop-up prompt box that asks the user for input.**

**6. confirm() function: Displays a pop-up confirmation box that asks the user to confirm or cancel.**

**6.c) write a program to explain the different ways for taking input.**

```
<html>  
  <body>  
    <form id="myForm">  
      <input type="text" id="myInput" />  
      <button type="submit">Submit</button>  
    </form>  
    <script src="script1.js"></script>  
  </body>  
</html>
```

### **Script1.js:**

```
// Method 1: Using prompt() function  
let name = prompt("What is your name?");  
document.writeln("Hello, " + name + "!!");  
// Method 2: Using confirm() function  
let response = confirm("Are you sure?");  
if (response) {  
  document.writeln("You clicked OK!");  
} else {  
  document.writeln("You clicked Cancel!");  
}
```

```
// Method 3: Using HTML form and JavaScript  
let form = document.getElementById("myForm");  
let inputField =  
document.getElementById("myInput");  
form.addEventListener("submit", function(event) {  
    event.preventDefault();  
    let inputValue = inputField.value;  
    document.writeln("You entered: " + inputValue);  
});
```

```
// Method 4: Using JavaScript readline() function  
(Node.js)
```

```
// Note: This method only works in Node.js  
environment
```

```
const readline = require("readline");  
const rl = readline.createInterface({  
    input: process.stdin,  
    output: process.stdout  
});  
rl.question("What is your name? ",  
function(answer) {  
    console.log("Hello, " + answer + "!!");  
    rl.close();  
});
```



- 1. prompt() function: Displays a pop-up prompt box that asks the user for input.**
- 2. confirm() function: Displays a pop-up confirmation box that asks the user to confirm or cancel.**
- 3. HTML form and JavaScript: Uses an HTML form to collect user input, and JavaScript to process the input.**
- 4. readline() function (Node.js): Uses the readline module in Node.js to read user input from the console.**

**6.d) create a webpage which uses prompt dialogue box to ask a voter for his name and age . display the information in table format along with either the voter can vote or not.**

```
<!DOCTYPE html>
<html>
<head>
  <title>Voter Information</title>
  <style>
    table {
      border-collapse: collapse;
    }
    th, td {
      border: 1px solid black;
      padding: 10px;
    }
  </style>
</head>
<body>
  <h2>Voter Information</h2>
  <button onclick="getVoterInfo()">Get Voter
Info</button>
  <div id="voterInfo"></div>
```

```
<script>
  function getVoterInfo() {
    let name = prompt("Please enter your name:");
    let age = parseInt(prompt("Please enter your
age:"));
    let votingEligibility = (age >= 18) ? "Eligible" :
"Not Eligible";
    let voterInfoHtml = `
      <table>
        <tr>
          <th>Name</th>
          <th>Age</th>
          <th>Voting Eligibility</th>
        </tr>
        <tr>
          <td>${name}</td>
          <td>${age}</td>
          <td>${votingEligibility}</td>
        </tr>
      </table>
```

```
`;  
document.getElementById("voterInfo").innerHTML =  
voterInfoHtml;  
}  
</script>  
</body>  
</html>
```