Subject : 2304CS431 – Client Side Scripting using Javascript

Faculty: Prof. Chirag K. Sakhrani

	Practical - 15: Exploring DOM Methods and Dynamic HTML (DHTML)
1)	WAP to demonstrate the use of getElementById() method. (A)

Program :-
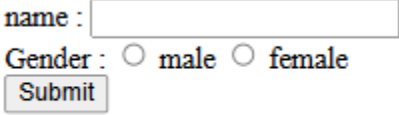
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
        #greeting ,#showDate{
            font-size: 24px;
            color: blue;
            text-align: center;
            margin-top: 50px;
            transition: 0.5s ease-in-out;
        }
        #changeBtn,#showDateBtn {
            display: block;
            margin: 20px auto;
            padding: 10px 20px;
            font-size: 16px;
            cursor: pointer;
        }
    </style>
</head>
<body>
    <form onsubmit="onSubmit(event)">
        <label id="nameLabel" name="name">name : </label>
        <input id="nameInput" name="name" type="text" /><br>
        <label>Gender : </label>
        <input type="radio" name="gender" value="male"> male
        <input type="radio" name="gender" value="female"> female<br>
        <input type="submit" >
    </form>
    <h1 id="show"></h1><br><br><br>
    <h1 style="text-align: center;">Welcome to DHTML Example</h1>
    <div id="greeting">Hello! Click the button to change me.</div>
    <button id="changeBtn" onclick="animat()">Change Style and Text</button>
    <h1 id="showDate"></h1><br><br><br>
    <button id="showDateBtn" type="button" onclick="showdate()">show Date</button>
    <script src="script.js"></script>
</body>
</html>
```
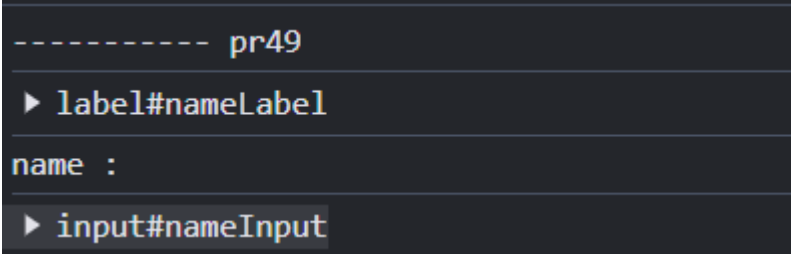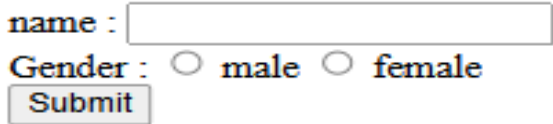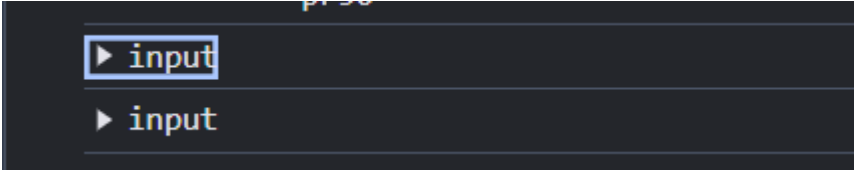
Script.js

```javascript
const label = document.getElementById("nameLabel")
console.dir(label);
console.log(label.innerHTML);
const input = document.getElementById("nameInput")
```

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	`console.dir(input);`
	Output :- name : Gender : ○ male ○ female Submit ---------- pr49 ▶ label#nameLabel name : ▶ input#nameInput
2)	WAP to demonstrate the use of getElementsByName() method. (A)

	Program :-
	*Use HTML code from question 1
	
	Script.jsconst genders = document.getElementsByName("gender")
	
	genders.forEach(elem=>{
	
	    console.dir(elem);
	
	})

	Output :- name : Gender : ○ male ○ female Submit pr50 ▶ input ▶ input
3)	WAP to demonstrate the use of getElementsByTagName() method. (A)
	Program:-
	*Use HTML code from question 1

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	const inputTag = document.getElementsByTagName("input") console.log(inputTag);
	Output:- ▼ HTMLCollection(4) ⓘ 　▶ **0:** input#nameInput 　▶ **1:** input 　▶ **2:** input 　▶ **3:** input 　▶ gender: input 　▶ name: input#nameInput 　▶ nameInput: input#nameInput 　　length: 4 　▶ [[Prototype]]: HTMLCollection
4)	**WAP to show how to use DHTML. (A).**
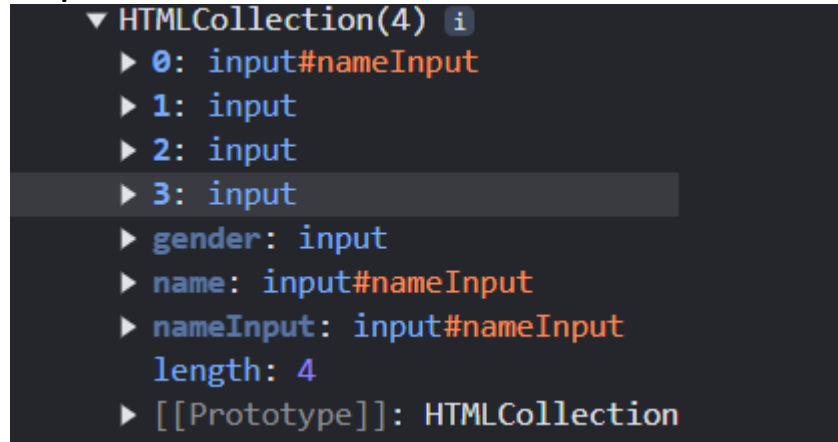
	Program:-
	*Use HTML code from question 1
	const geeting = document.getElementById("greeting")
	const btn = document.getElementById("changeBtn")
	function animat(){
	　　geeting.style.color = "green"
	　　geeting.style.fontSize = "30px"
	　　geeting.style.transform = "rotate(360deg)"
	}

	Output:- **Welcome to DHTML Example** Hello! Click the button to change me. Change Style and Text **Welcome to DHTML Example** Hello! Click the button to change me. Change Style and Text

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5)	WAP to print current date and time on click of "Date and Time" button. (A)

	Program:-
	
	 console.log("----------- pr53");
	 function showdate(){
	     const h1 = document.getElementById("showDate")
	     h1.innerHTML = new Date()
	 }

	Output:- **Sat Dec 28 2024 20:17:36 GMT+0530 (India Standard Time)** [show Date]