

Practical – 6

Aim 1: Demonstrate Class, Properties, Methods and Objects.

Source Code:

```
<!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>p6-1</title>
</head>
<body>
<script>
class Bike {
constructor(type, avgspeed) { this.type = type; this.avgspeed = avgspeed;
document.write(`<br> type :- ${type}<br> average-speed:- ${avgspeed} in bike`);
}
displayBike(){
document.write(`<br> inside bike class`);
}}
class Electric extends Bike { constructor(price, model) {
super(price, model); this.price = price; this.model = model;
document.write(`<br> price :- ${this.price}<br> model :- ${this.model} in Electric`);
}
displayEle(){
document.write(`<br> Inside Electric class`);
}}
let r = new Electric(300000,"30EC"); r.displayEle();
r.displayBike();
</script>
</body></html>
```

Output:

```
type :- 300000
average-speed:- 30EC in bike
price :- 300000
model :- 30EC in Electric
Inside Electric class
inside bike class
```

Aim 2: Demonstrate how to work with JSON File.**Source Code:**

```
<!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>JSON</title>
</head>

<body>
<h1>Demonstrate how to work with JSON File</h1>
<p id="p"></p>
<script>
var raj = '{"first_name" : "Divya", "last_name" : "Patel", "location" : "Gujarat", "gender" : "Female"}';
const obj = JSON.parse(raj);
let t = `first-name:- ${obj.first_name} <br> last-name:- ${obj.last_name} <br> location:
${obj.location} <br> gender: ${obj.gender} <br>`; document.getElementById('p').innerHTML
= t;
</script>
</body>
</html>
```

Output:**Demonstrate how to work with JSON File**

```
first-name:- Divya
last-name:- Patel
location: Gujarat
gender: Female
```

Aim-3: Do Spousal Registration Form Validation (Error object and try...catch..)**Source Code:**

```

<!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>Error-Obj</title>
</head>
<body>
<div class="main">
<h1>Spoural Registration Forms</h1>
<form action="">
<label for="name">Name:-</label>
<input type="text" id="name"><br>
<label for="id">Id:-</label>
<input type="text" id="id">
<br>
<label for="Branch">Branch:-</label>
<input type="text" id="br">
<br>
<input type="button" value="Submit" id="submit">
<p id="p"></p>
</form>
</div>
<style>
.main {
top: 25%;
left: 25%;
font-size: 30px; padding: 20px; width: 50%;
height: 45%;
background-color: #b4b4b4; position: absolute;
display: block; text-align: center;
justify-content: center; border: 2px solid gray;}
input {
padding: 5px; margin: 10px;
}
</style>
<script>
let btn = document.getElementById('submit'); btn.onclick = () => {
let name = document.getElementById('name'); let id = document.getElementById('id');

```

```
let br = document.getElementById('br'); let p = document.getElementById('p'); try {  
if (name.value == "" || id.value == "" || br.value == "") { throw new Error("NULL Value NOT  
allowed")  
}else if (br.value != "it" && br.value != "ce" && br.value != "cse") { throw new Error("invalide  
branch")}  
else{  
}} catch (error) {  
p.innerHTML = "Error: " + error.message;  
}  
</script>  
</body>  
</html>
```

Output:

The image displays two screenshots of a web form titled "Spoural Registration Forms". The form contains three input fields: "Name:-" with the value "Divya", "Id:-" with the value "21IT109", and "Branch:-" with the value "IT". Below these fields is a "Submit" button. In the top screenshot, the form is in its initial state. In the bottom screenshot, an error message "Error: invalide branch" is displayed below the "Submit" button, indicating that the branch value is not valid according to the form's validation rules.

Conclusion:

In this practical I learn java script language in basic level. And how to apply different type of concepts in java script like JS class, Objects, Error Object, JSON Object, Try-catch.