

**(Q1)**

```
<script>
let str = "JavaScript";
document.write(str.substring(0, 4) + "<br>");
document.write(str.substr(4, 6) + "<br>");
document.write(str.slice(-6) + "<br>");
</script>
```

**(Q2)**

```
<script>
let arr = [10, 20, 30];
document.write("Original Array: " + arr + "<br>");
arr.push(40);
document.write("After push(): " + arr + "<br>");
arr.pop();
document.write("After pop(): " + arr + "<br>");
arr.shift();
document.write("After shift(): " + arr + "<br>");
arr.unshift(5);
document.write("After unshift(): " + arr + "<br>");
arr.splice(1, 1, 15);
document.write("After splice(): " + arr + "<br>");
arr.reverse();
document.write("After reverse(): " + arr + "<br>");
arr.sort();
document.write("After sort(): " + arr + "<br>");
</script>
```

**(Q3)****html**

```

└── head
    ├── meta [charset="ISO-8859-1"]
    └── title
        └── "Insert title here"
└── body
    ├── h1
    │   └── "Hello IWT Class"
    └── p [align="center"]
        └── b
            └── "All Students are there"
```

**(Q4)**

```
<p id="demo">Hello</p>
<p class="cls">Paragraph 1</p>
<p class="cls">Paragraph 2</p>

<script>
document.getElementById("demo").innerHTML = "Changed by ID";

let c = document.getElementsByClassName("cls");
c[0].innerText = "Changed by Class";

let t = document.getElementsByTagName("p");
t[2].style.color = "red";
</script>
```

**(Q5)**

```
<p class="test">One</p>
<p class="test">Two</p>

<script>
document.querySelector(".test").style.color = "blue";

let all = document.querySelectorAll(".test");
all[1].innerText = "Modified";
</script>
```

**(Q6)**

```
<div id="box"></div>

<script>
let p = document.createElement("p");
p.innerText = "New Paragraph Added";

document.getElementById("box").appendChild(p);
</script>
```

**(Q7)**

```
<form onsubmit="return validate()">
Username: <input type="text" id="u"><br>
Password: <input type="password" id="p"><br>
<input type="submit" value="Login">
</form>
```

```
<script>
function validate() {
if (u.value == "") {
alert("Enter Username");
u.focus();
return false;
}
if (p.value == "") {
alert("Enter Password");
p.focus();
return false;
}
alert("Successfully Login");
window.location = "a6q7.html";
return false;
}
</script>
```

**(Q8)**

```

<form onsubmit="return check()">
<input id="u" placeholder="Username"><br>
<input type="password" id="p" placeholder="Password"><br>
<input type="submit">
</form>

<script>
function check() {
let user = /^[^A-Z][a-z]+[0-9]+$/;
let pass = /^[^A-Z][a-z]+[0-9]+[@#].+$/;

if (!user.test(u.value)) {
    alert("Invalid Username");
    u.focus();
    return false;
}
if (!pass.test(p.value)) {
    alert("Invalid Password");
    p.focus();
    return false;
}
alert("Successfully Login");
return true;
}
</script>

```

**(Q9)**

```

<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

<input type="password" id="pwd">
<i class="fa fa-eye" onclick="toggle()"></i>

<script>
function toggle() {
let p = document.getElementById("pwd");
p.type = (p.type === "password") ? "text" : "password";
}
</script>

```

**(Q10)**

```
<!DOCTYPE html>
<html>
<head>
<title>File Preview</title>
<style>
body{font-family:Arial}
#box{border:2px solid #000;height:250px;margin-top:10px}
</style>
</head>

<body>

<h3>Registration</h3>

<form>
<input type="text" placeholder="Name" required><br>
<input type="email" placeholder="Email" required><br>
<input type="file" id="f" accept=".jpg,.png,.jpeg,.pdf,.doc,.docx"><br>
<button type="button" onclick="p0()">Preview</button>
</form>

<div id="box">Preview here</div>

<script>
function p0(){
let file=document.getElementById("f").files[0];
let box=document.getElementById("box");
if(!file){alert("Select file");return;}
let url=URL.createObjectURL(file);
box.innerHTML=file.type.startsWith("image/")
?``
:`<iframe src="${url}" width="100%" height="100%"></iframe>`;
}
</script>

</body>
</html>
```