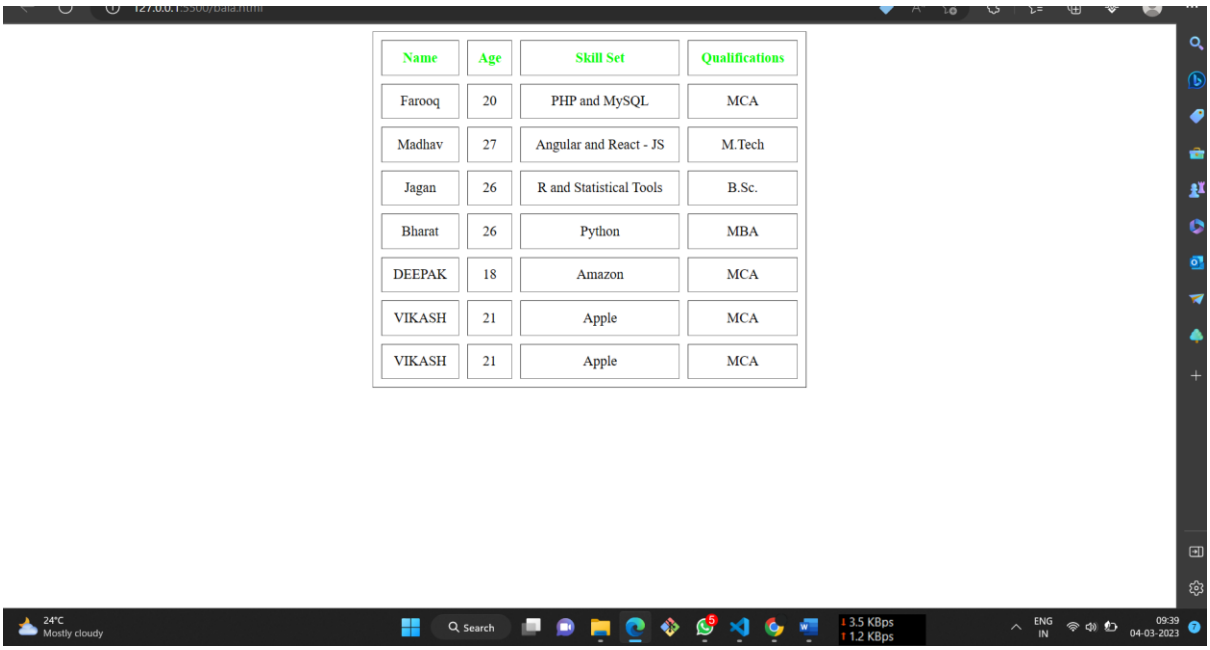
Assignment

Part – X:

1. Output –



Name	Age	Skill Set	Qualifications
Farooq	20	PHP and MySQL	MCA
Madhav	27	Angular and React - JS	M.Tech
Jagan	26	R and Statistical Tools	B.Sc.
Bharat	26	Python	MBA
DEEPAK	18	Amazon	MCA
VIKASH	21	Apple	MCA
VIKASH	21	Apple	MCA

2. In the resulting table to get the following, what are the changes needed in the code?

   a) Adding an extra column Qualification

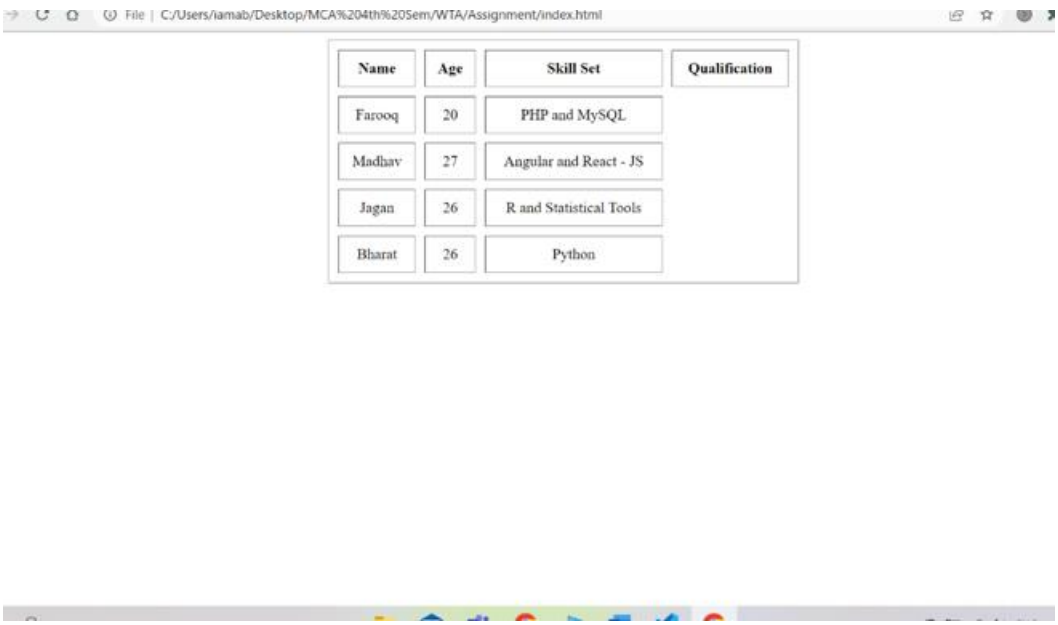
   var heads = ['Name', 'Age', 'Skill Set', 'Qualification'];

   b) Adding two names with corresponding details

```
var dt6 = ['John', '23', 'Node JS', 'MCA'];
var tr6 = document.createElement('tr');
for (var i = 0; i < dt6.length; i++) {
var td = document.createElement('td');
td.setAttribute('class', 'center');
td.innerHTML = dt6[i];
tr6.appendChild(td);
}
var dt7 = ['Henry', '27', 'Java', 'M.Tech.'];
var tr7 = document.createElement('tr');
for (var i = 0; i < dt7.length; i++) {
var td = document.createElement('td');
```

```
td.setAttribute('class', 'center');
td.innerHTML = dt7[i];
tr7.appendChild(td);
}
tbody.appendChild(tr6);
tbody.appendChild(tr7);
```

c) Table after deleting row ‘lenin’



d) Add the following code after appending two rows in table –

```
var dt = ['Deepak', '22', 'Angular'];
var tr = document.createElement('tr');
for (var i = 0; i < dt.length; i++) {
var td = document.createElement('td');
td.setAttribute('class', 'center');
td.innerHTML = dt[i];
tr.appendChild(td);
}
tbody.appendChild(tr);
```

e) Following modified code will change table header color to green –

```
var tr = document.createElement('tr');
var heads = ['Name', 'Age', 'Skill Set','Qualification'];
for (var i = 0; i < heads.length; i++) {
var th = document.createElement('th');
th.innerHTML = heads[i];
th.style.color = "green";
tr.appendChild(th);
}
```

f)

Part – Y:

1.

```
<!ELEMENT family (parents, child*)>
<!ELEMENT parents (mother, father)>
<!ELEMENT mother (#PCDATA)>
<!ELEMENT father (#PCDATA)>
<!ELEMENT child (#PCDATA)>
<!ATTLIST child gender (boy | girl) #REQUIRED>
```

```
<?xml version="1.0"?>
<!DOCTYPE family SYSTEM "family.dtd">
<family>
   <parents>
      <mother/>
      <father/>
   </parents>
   <children>
      <child gender="boy"/>
      <child gender="girl"/>
   </children>
</family>
```

2.

```
<!ELEMENT book (page+)>
<!ELEMENT page (picture*, table*)>
<!ELEMENT picture (#PCDATA)>
<!ELEMENT table (#PCDATA)>
```

```
<!DOCTYPE book SYSTEM "book.dtd">
<book>
 <page>
   <picture>This is a picture.</picture>
   <picture>This is another picture.</picture>
   <table>This is a table.</table>
 </page>
 <page>
   <picture>This is a picture on the second page.</picture>
   <table>This is another table on the second page.</table>
 </page>
</book>
```

3.

```
<!ELEMENT cardpile (card*)>
<!ELEMENT card (#PCDATA)>
<!ATTLIST card
   suit (spade|diamond|hearts|club) #REQUIRED
   value (1|2|3|4|5|6|7|8|9|10|11|12|13|14) #REQUIRED>

<!DOCTYPE cardpile SYSTEM "cardpile.dtd">
<cardpile>
   <card suit="spade" value="1"/>
   <card suit="hearts" value="7"/>
   <card suit="diamond" value="14"/>
   <card suit="club" value="11"/>
</cardpile>
```

4.

```
<!ELEMENT computer (monitor, cpu, keyboard, mouse, externalharddrive?, software*)>
<!ELEMENT monitor (#PCDATA)>
<!ELEMENT cpu (#PCDATA)>
<!ELEMENT keyboard (#PCDATA)>
<!ELEMENT mouse (#PCDATA)>
<!ELEMENT externalharddrive (#PCDATA)>
<!ELEMENT software (#PCDATA)>
<!ATTLIST externalharddrive
   name CDATA #REQUIRED
   size CDATA #REQUIRED>
<!ATTLIST software
   name CDATA #REQUIRED
   version CDATA #REQUIRED
   dateinstalled CDATA #REQUIRED>

<!DOCTYPE computer SYSTEM "computer.dtd">
<computer>
   <monitor/>
   <cpu/>
   <keyboard/>
   <mouse/>
   <externalharddrive name="My Drive" size="2TB"/>
   <software name="MS Teams" version="3.4" dateinstalled="01-01-2021"/>
   <software name="Weka" version="5.11" dateinstalled="17-04-2022"/>
</computer>
```

Part – Z:

```
function loadXMLDoc() {
        var xmlhttp = new XMLHttpRequest();
        xmlhttp.onreadystatechange = function () {
```

```
      // Request finished and response
      // is ready and Status is "OK"
      if (this.readyState == 4 && this.status == 200) {
         addRow(this);
         empDetails(this);
      }
   };

   // employee.xml is the external xml file
   xmlhttp.open("GET", "employee.xml", true);
   xmlhttp.send();
}

function addRow(xml) {
   var xmlDoc = xml.responseXML;
   var temp=xmlDoc.getElementsByTagName("employees");
   var x=temp[0];

   var employeeNode = xmlDoc.createElement("employee");
   employeeNode.setAttribute("id", "be142");

   var firstNameNode = xmlDoc.createElement("firstname");
   firstNameNode.textContent = "YourName";
   employeeNode.appendChild(firstNameNode);

   var lastNameNode = xmlDoc.createElement("lastname");
   lastNameNode.textContent = "YourSurname";
   employeeNode.appendChild(lastNameNode);

   var titleNode = xmlDoc.createElement("title");
   titleNode.textContent = "Engineer";
   employeeNode.appendChild(titleNode);

   var divisionNode = xmlDoc.createElement("division");
   divisionNode.textContent = "Materials";
   employeeNode.appendChild(divisionNode);

   var buildingNode = xmlDoc.createElement("building");
   buildingNode.textContent = "325";
   employeeNode.appendChild(buildingNode);

   var roomNode = xmlDoc.createElement("room");
   roomNode.textContent = "103";
   employeeNode.appendChild(roomNode);

   var afterNode = x.childNodes[7];
   x.insertBefore(employeeNode, afterNode);
}
```