

Q01.

```
<?xml version="1.0" encoding="UTF-8"?>
<students>
    <student id="1" regNo="SEU/IS/20/ICT/084">
        <name>Pasan Kalhara</name>
        <department>ICT</department>
        <gpa>3.8</gpa>
    </student>
    <student id="2" regNo="SEU/IS/20/BST/006">
        <name>Tharushi Randhula</name>
        <department>BST</department>
        <gpa>4.0</gpa>
    </student>
    <student id="3" regNo="SEU/IS/20/ICT/026">
        <name>Ishara Madhushanka</name>
        <department>ICT</department>
        <gpa>3.9</gpa>
    </student>
    <student id="4" regNo="SEU/IS/20/ICT/045">
        <name>Sagara</name>
        <department>ICT</department>
        <gpa>2.0</gpa>
    </student>
    <student id="5" regNo="SEU/IS/20/BST/026">
        <name>Amani</name>
        <department>BST</department>
        <gpa>3.0</gpa>
    </student>
</students>
```

Q02.

```
<?xml version="1.0" encoding="UTF-8"?>
<library>
    <book id="1" isbn="S001" category="ICT">
        <title>C++</title>
        <author>Saman Ekanayaka</author>
        <price>1000.00</price>
    </book>
    <book id="2" isbn="S003" category="Engineering">
        <title>Motor Macanic</title>
        <author>Kavidhu Rathnayaka</author>
        <price>12000.00</price>
    </book>
```

```

<book id="3" isbn="S015" category="BST">
    <title>BST</title>
    <author>Sagara</author>
    <price>1000.00</price>
</book>
<book id="4" isbn="S033" category="English">
    <title>Romiyo Juliat</title>
    <author>Rathnayaka</author>
    <price>3000.00</price>
</book>
<book id="5" isbn="S063" category="Net Working">
    <title>Net Working</title>
    <author>Kavidhu Rathnayaka</author>
    <price>1000.00</price>
</book>
</library>

```

Q03.

```

<?xml version="1.0" encoding="UTF-8"?>
<timeTable>
    <Period id="1" day="Mon Day">
        <subject>OOD</subject>
        <time>8.00</time>
        <lecturerName>Kalhara</lecturerName>
    </Period>
    <Period id="2" day="Tue Day">
        <subject>Network</subject>
        <time>10.35</time>
        <lecturerName>Damith</lecturerName>
    </Period>
    <Period id="3" day="Wens Day">
        <subject>Programing</subject>
        <time>9.00</time>
        <lecturerName>Kasun</lecturerName>
    </Period>
    <Period id="4" day="The Day">
        <subject>Java Web Development</subject>
        <time>2.00</time>
        <lecturerName>Samitha</lecturerName>
    </Period>
    <Period id="5" day="Fri Day">
        <subject>OOAD</subject>
        <time>8.00</time>
        <lecturerName>Ishara</lecturerName>
    </Period>
</timeTable>

```

```

</Period>
<period id="6" day="sun Day">
    <subject>C++ Programmin</subject>
    <time>3.00</time>
    <lecturerName>Kalhara</lecturerName>
</period>
</timeTable>

```

Q04.

index.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q04</title>
</head>
<body>

    <p>Book Title List</p>
    <ul id="list"></ul>

    <script>
        const list = document.getElementById("list");
        const parser = new DOMParser();

        fetch('library.xml')
            .then(response => response.text())
            .then(xmlText => {
                const xmlDoc = parser.parseFromString(xmlText, 'text/xml');
                const library = xmlDoc.getElementsByTagName('book');

                for (let i = 0; i < library.length; i++) {
                    const lib = library[i];
                    const title =
lib.getElementsByTagName('title')[0]?.textContent.trim() || '';
                    const row = document.createElement('li');
                    row.innerHTML =
                        <li>${title}</li>
                }
            })
    </script>

```

```

        list.appendChild(row);

        console.log(title);
    }
})
.catch(err => {
    console.error('Failed to load or parse library.xml:', err);
    const row = document.createElement('tr');
    row.innerHTML = `<li colspan="7">Failed to load library
data.</li>`;
    list.appendChild(row);
});
</script>

</body>
</html>

```

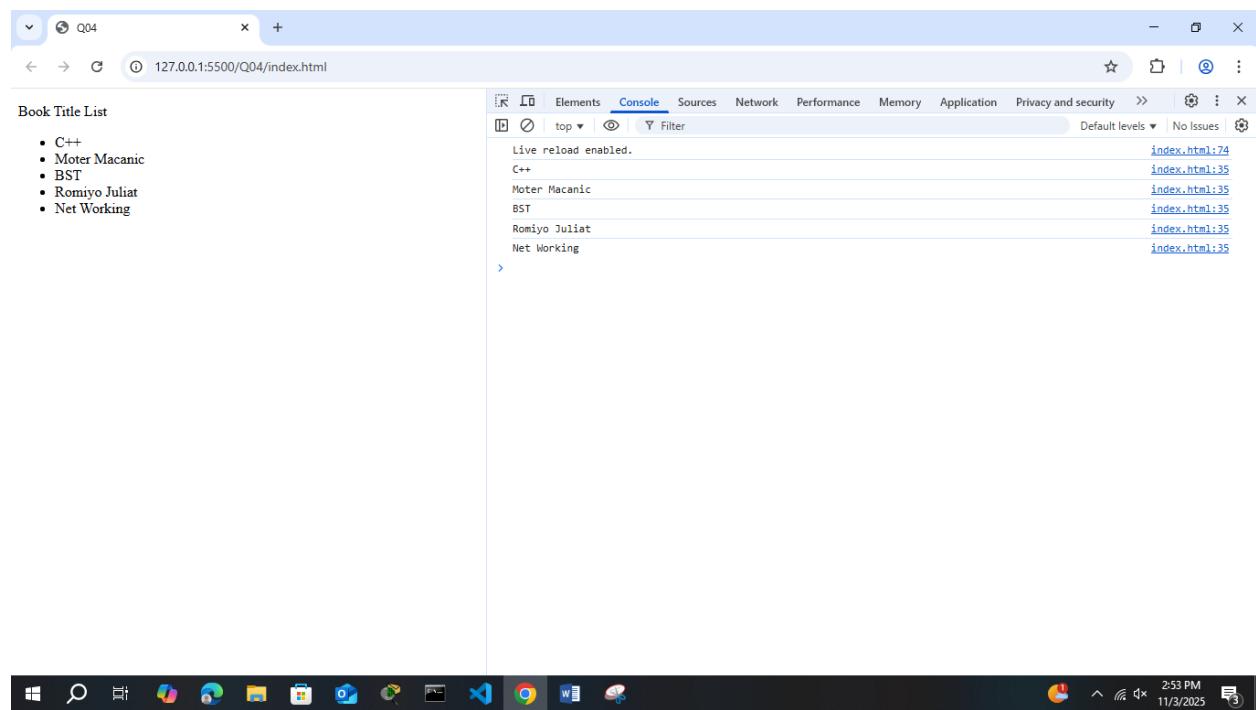
library.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<library>
    <book id="1" isbn="S001" category="ICT">
        <title>C++</title>
        <author>Saman Ekanayaka</author>
        <price>1000.00</price>
    </book>
    <book id="2" isbn="S003" category="Engineering">
        <title>Moter Macanic</title>
        <author>Kavidhu Rathnayaka</author>
        <price>12000.00</price>
    </book>
    <book id="3" isbn="S015" category="BST">
        <title>BST</title>
        <author>Sagara</author>
        <price>1000.00</price>
    </book>
    <book id="4" isbn="S033" category="English">
        <title>Romiyo Julian</title>
        <author>Rathnayaka</author>
        <price>3000.00</price>
    </book>
    <book id="5" isbn="S063" category="Net Working">
        <title>Net Working</title>
        <author>Kavidhu Rathnayaka</author>
        <price>1000.00</price>
    </book>
</library>

```

```
</book>  
</library>
```



Q05.

index.html

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Q05</title>  
</head>  
<body>  
  
    <p>Students List</p>  
    <table id="list" border="1">  
        <tr>  
            <th>Name</th>  
            <th>GPA</th>  
        </tr>  
    </table>  
  
<script>  
    const list = document.getElementById("list");
```

```

const parser = new DOMParser();

fetch('students.xml')
  .then(response => response.text())
  .then(xmlText => {
    const xmlDoc = parser.parseFromString(xmlText, 'text/xml');
    const students = xmlDoc.getElementsByTagName('student');

    for (let i = 0; i < students.length; i++) {
      const std = students[i];

      const gpa
=std.getElementsByTagName('gpa')[0]?.textContent.trim() || '';
      if(gpa >=3.5){
        const name =
      std.getElementsByTagName('name')[0]?.textContent.trim() || '';
        const row = document.createElement('tr');
        row.innerHTML =
          `<td>${name}</td>
          <td>${gpa}</td>
        `;
        list.appendChild(row);

        console.log(name);
      }
    }
  })
  .catch(err => {
    console.error('Failed to load or parse students.xml:', err);
    const row = document.createElement('tr');
    row.innerHTML = `<td colspan="7">Failed to load students
data.</td>`;
    list.appendChild(row);
  });
</script>

</body>
</html>

```

students.xml

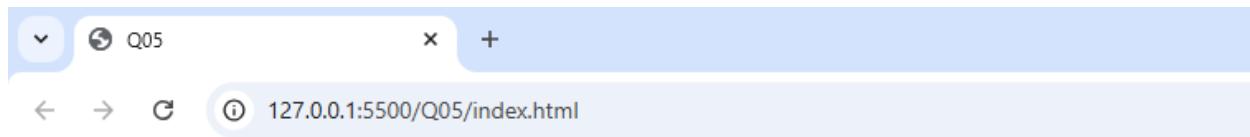
```

<?xml version="1.0" encoding="UTF-8"?>
<students>
```

```

<student id="1" regNo="SEU/IS/20/ICT/084">
    <name>Pasan Kalhara</name>
    <department>ICT</department>
    <gpa>3.8</gpa>
</student>
<student id="2" regNo="SEU/IS/20/BST/006">
    <name>Tharushi Randhula</name>
    <department>BST</department>
    <gpa>4.0</gpa>
</student>
<student id="3" regNo="SEU/IS/20/ICT/026">
    <name>Ishara Madhushanka</name>
    <department>ICT</department>
    <gpa>3.9</gpa>
</student>
<student id="4" regNo="SEU/IS/20/ICT/045">
    <name>Sagara</name>
    <department>ICT</department>
    <gpa>2.0</gpa>
</student>
<student id="5" regNo="SEU/IS/20/BST/026">
    <name>Amani</name>
    <department>BST</department>
    <gpa>3.0</gpa>
</student>
</students>

```



Students List

Name	GPA
Pasan Kalhara	3.8
Tharushi Randhula	4.0
Ishara Madhushanka	3.9

Q06.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q06</title>
</head>
<body>
    <p><strong>Old Book Table</strong></p>
    <table id="oldlist" border="1">
        <tr>
            <th>Title</th>
            <th>Author</th>
            <th>Price</th>
        </tr>
        <tr>
            <td>The Great Gatsby</td>
            <td>F. Scott Fitzgerald</td>
            <td>$12.99</td>
        </tr>
        <tr>
            <td>War and Peace</td>
            <td>Leo Tolstoy</td>
            <td>$19.99</td>
        </tr>
    </table>

    <p><strong>Updated Book Table</strong></p>
    <table id="UpdateList" border="1">
        <tr>
            <th>Title</th>
            <th>Author</th>
            <th>Price</th>
        </tr>
        <tr>
            <td>The Great Gatsby</td>
            <td>F. Scott Fitzgerald</td>
            <td>$12.99</td>
        </tr>
        <tr>
            <td>War and Peace</td>
            <td>Leo Tolstoy</td>
            <td>$19.99</td>
        </tr>
    </table>

    <script>
        const oldlist = document.getElementById("oldlist");
        const updatelist = document.getElementById("UpdateList");
        const parser = new DOMParser();

        fetch('library.xml')
            .then(response => response.text())
            .then(xmlText => {
                const xmlDoc = parser.parseFromString(xmlText, 'text/xml');
                const books = xmlDoc.getElementsByTagName('book');

                for (let i = 0; i < books.length; i++) {
                    const title =
books[i].getElementsByTagName('title')[0]?.textContent.trim() || '';
                    const author =
books[i].getElementsByTagName('author')[0]?.textContent.trim() || '';
                    const price =
books[i].getElementsByTagName('price')[0]?.textContent.trim() || '';
                    const row = document.createElement('tr');
                    const titleCell = document.createElement('td');
                    titleCell.textContent = title;
                    const authorCell = document.createElement('td');
                    authorCell.textContent = author;
                    const priceCell = document.createElement('td');
                    priceCell.textContent = price;
                    row.appendChild(titleCell);
                    row.appendChild(authorCell);
                    row.appendChild(priceCell);
                    oldlist.appendChild(row);
                }
            })
    </script>

```

```

        const author =
books[i].getElementsByTagName('author')[0]?.textContent.trim() || '';
        const price =
books[i].getElementsByTagName('price')[0]?.textContent.trim() || '';

        const row = document.createElement('tr');
        row.innerHTML =
            <td>${title}</td>
            <td>${author}</td>
            <td>${price}</td>
        ';
        oldlist.appendChild(row);
    }

    if (books[1]) {
        const priceNode = books[1].getElementsByTagName('price')[0];
        if (priceNode) {
            priceNode.textContent = '4000.00';
        }
    }

    for (let i = 0; i < books.length; i++) {
        const title =
books[i].getElementsByTagName('title')[0]?.textContent.trim() || '';
        const author =
books[i].getElementsByTagName('author')[0]?.textContent.trim() || '';
        const price =
books[i].getElementsByTagName('price')[0]?.textContent.trim() || '';

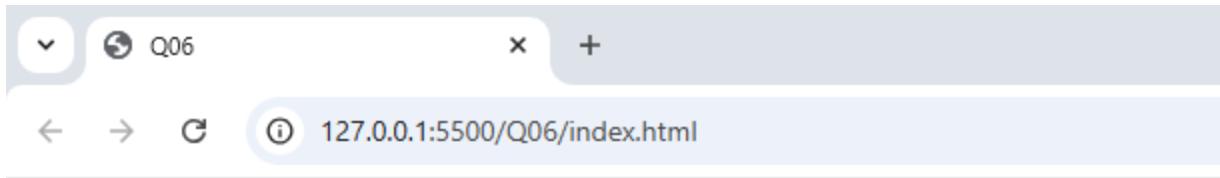
        const row = document.createElement('tr');
        row.innerHTML =
            <td>${title}</td>
            <td>${author}</td>
            <td>${price}</td>
        ';
        updatelist.appendChild(row);
    }
}

.catch(err => {
    console.error('Failed to load or parse library.xml:', err);
    const li = document.createElement('li');
    li.textContent = 'Failed to load library data.';
```

```
        oldlist.appendChild(li);
        updatelist.appendChild(li.cloneNode(true));
    });
</script>
</body>
</html>
```

library.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<library>
    <book id="1" isbn="S001" category="ICT">
        <title>C++</title>
        <author>Saman Ekanayaka</author>
        <price>1000.00</price>
    </book>
    <book id="2" isbn="S003" category="Engineering">
        <title>Moter Macanic</title>
        <author>Kavidhu Rathnayaka</author>
        <price>12000.00</price>
    </book>
    <book id="3" isbn="S015" category="BST">
        <title>BST</title>
        <author>Sagara</author>
        <price>1000.00</price>
    </book>
    <book id="4" isbn="S033" category="English">
        <title>Romijo Julian</title>
        <author>Rathnayaka</author>
        <price>3000.00</price>
    </book>
    <book id="5" isbn="S063" category="Net Working">
        <title>Net Working</title>
        <author>Kavidhu Rathnayaka</author>
        <price>1000.00</price>
    </book>
</library>
```



Old Book Table

Title	Author	Price
C++	Saman Ekanayaka	1000.00
Moter Macanic	Kavidhu Rathnayaka	12000.00
BST	Sagara	1000.00
Romiyo Juliat	Rathnayaka	3000.00
Net Working	Kavidhu Rathnayaka	1000.00

Updated Book Table

Title	Author	Price
C++	Saman Ekanayaka	1000.00
Moter Macanic	Kavidhu Rathnayaka	4000.00
BST	Sagara	1000.00
Romiyo Juliat	Rathnayaka	3000.00
Net Working	Kavidhu Rathnayaka	1000.00

Q07.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q07</title>
</head>
<body>
    <p><strong>Old Book Table</strong></p>
    <table id="oldlist" border="1">
        <tr>
```

```

<th>Title</th>
<th>Author</th>
<th>Price</th>
</tr>
</table>

<p><strong>Updated Book Table</strong></p>
<table id="UpdateList" border="1">
  <tr>
    <th>Title</th>
    <th>Author</th>
    <th>Price</th>
  </tr>
</table>

<script>
  const oldlist = document.getElementById("oldlist");
  const updatelist = document.getElementById("UpdateList");
  const parser = new DOMParser();

  fetch('library.xml')
    .then(response => response.text())
    .then(xmlText => {
      const xmlDoc = parser.parseFromString(xmlText, 'text/xml');
      const books = xmlDoc.getElementsByTagName('book');

      for (let i = 0; i < books.length; i++) {
        const title =
books[i].getElementsByTagName('title')[0]?.textContent.trim() || '';
        const author =
books[i].getElementsByTagName('author')[0]?.textContent.trim() || '';
        const price =
books[i].getElementsByTagName('price')[0]?.textContent.trim() || '';

        const row = document.createElement('tr');
        row.innerHTML =
          `<td>${title}</td>
           <td>${author}</td>
           <td>${price}</td>
          `;
        oldlist.appendChild(row);
      }

      if (books[1]) {
        const priceNode = books[1].getElementsByTagName('price')[0];

```

```
        if (priceNode) {
            priceNode.textContent = '4000.00';
        }
    }
    const newBook = xmlDoc.createElement('book');

    const newTitle = xmlDoc.createElement('title');
    newTitle.textContent = 'XML DOM Guide';
    newBook.appendChild(newTitle);

    const newAuthor = xmlDoc.createElement('author');
    newAuthor.textContent = 'Rahul';
    newBook.appendChild(newAuthor);

    xmlDoc.documentElement.appendChild(newBook);
    const updatedBooks = xmlDoc.getElementsByTagName('book');
    for (let i = 0; i < updatedBooks.length; i++) {
        const title =
updatedBooks[i].getElementsByTagName('title')[0]?.textContent.trim() || '';
        const author =
updatedBooks[i].getElementsByTagName('author')[0]?.textContent.trim() || '';
        const price =
updatedBooks[i].getElementsByTagName('price')[0]?.textContent.trim() || '';

        const row = document.createElement('tr');
        row.innerHTML =
            `<td>${title}</td>
             <td>${author}</td>
             <td>${price}</td>
            `;
        updatelist.appendChild(row);
    }
}

.catch(err => {
    console.error('Failed to load or parse library.xml:', err);
    const row = document.createElement('tr');
    row.innerHTML = `<td colspan="3">Failed to load library data.</td>`;
    oldlist.appendChild(row.cloneNode(true));
    updatelist.appendChild(row);
});
</script>
</body>
```

```
</html>
```

library.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<library>
    <book id="1" isbn="S001" category="ICT">
        <title>C++</title>
        <author>Saman Ekanayaka</author>
        <price>1000.00</price>
    </book>
    <book id="2" isbn="S003" category="Enginering">
        <title>Moter Macanic</title>
        <author>Kavidhu Rathnayaka</author>
        <price>12000.00</price>
    </book>
    <book id="3" isbn="S015" category="BST">
        <title>BST</title>
        <author>Sagara</author>
        <price>1000.00</price>
    </book>
    <book id="4" isbn="S033" category="English">
        <title>Romiyo Julian</title>
        <author>Rathnayaka</author>
        <price>3000.00</price>
    </book>
    <book id="5" isbn="S063" category="Net Working">
        <title>Net Working</title>
        <author>Kavidhu Rathnayaka</author>
        <price>1000.00</price>
    </book>
</library>
```

Old Book Table

Title	Author	Price
C++	Saman Ekanayaka	1000.00
Moter Macanic	Kavidhu Rathnayaka	12000.00
BST	Sagara	1000.00
Romiyo Juliat	Rathnayaka	3000.00
Net Working	Kavidhu Rathnayaka	1000.00

Updated Book Table

Title	Author	Price
C++	Saman Ekanayaka	1000.00
Moter Macanic	Kavidhu Rathnayaka	4000.00
BST	Sagara	1000.00
Romiyo Juliat	Rathnayaka	3000.00
Net Working	Kavidhu Rathnayaka	1000.00
XML DOM Guide	Rahul	

Q07.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q08</title>
</head>
<body>
    <p><strong>Old Book Table</strong></p>
    <table id="oldlist" border="1">
        <tr>
            <th>Title</th>
            <th>Author</th>
            <th>Price</th>
        </tr>
    </table>

    <p><strong>Updated Book Table</strong></p>
    <table id="UpdateList" border="1">
        <tr>
            <th>Title</th>
            <th>Author</th>
            <th>Price</th>
        </tr>
```

```
</tr>
</table>

<script>
const oldlist = document.getElementById("oldlist");
const updatelist = document.getElementById("UpdateList");
const parser = new DOMParser();

fetch('library.xml')
.then(response => response.text())
.then(xmlText => {
    const xmlDoc = parser.parseFromString(xmlText, 'text/xml');
    const books = xmlDoc.getElementsByTagName('book');

    for (let i = 0; i < books.length; i++) {
        const title =
books[i].getElementsByTagName('title')[0]?.textContent.trim() || '';
        const author =
books[i].getElementsByTagName('author')[0]?.textContent.trim() || '';
        const price =
books[i].getElementsByTagName('price')[0]?.textContent.trim() || '';
        const row = document.createElement('tr');
        row.innerHTML =
` ${title}</td> <td>${author}</td> <td>${price}</td> `;         oldlist.appendChild(row);     }      if (books[1]) {         const priceNode = books[1].getElementsByTagName('price')[0];         if (priceNode) {             priceNode.textContent = '4000.00';         }     }      if (books[0]) {         const priceNode = books[0].getElementsByTagName('price')[0];         if (priceNode) {             books[0].removeChild(priceNode);         }     }      const newBook = xmlDoc.createElement('book'); |
```

```

const newTitle = xmlDoc.createElement('title');
newTitle.textContent = 'XML DOM Guide';
newBook.appendChild(newTitle);
const newAuthor = xmlDoc.createElement('author');
newAuthor.textContent = 'Rahul';
newBook.appendChild(newAuthor);
xmlDoc.documentElement.appendChild(newBook);

const updatedBooks = xmlDoc.getElementsByTagName('book');
for (let i = 0; i < updatedBooks.length; i++) {
    const title =
updatedBooks[i].getElementsByTagName('title')[0]?.textContent.trim() || '';
    const author =
updatedBooks[i].getElementsByTagName('author')[0]?.textContent.trim() || '';
    const price =
updatedBooks[i].getElementsByTagName('price')[0]?.textContent.trim() || '';
    const row = document.createElement('tr');
    row.innerHTML =
        `<td>${title}</td>
        <td>${author}</td>
        <td>${price}</td>
        `;
    updatelist.appendChild(row);
}
})
.catch(err => {
    console.error('Failed to load or parse library.xml:', err);
    const row = document.createElement('tr');
    row.innerHTML = `<td colspan="3">Failed to load library data.</td>`;
    oldlist.appendChild(row.cloneNode(true));
    updatelist.appendChild(row);
});
</script>
</body>
</html>

```

library.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<library>
    <book id="1" isbn="S001" category="ICT">
        <title>C++</title>
        <author>Saman Ekanayaka</author>
        <price>1000.00</price>

```

```

</book>
<book id="2" isbn="S003" category="Engineering">
    <title>Moter Macanic</title>
    <author>Kavidhu Rathnayaka</author>
    <price>12000.00</price>
</book>
<book id="3" isbn="S015" category="BST">
    <title>BST</title>
    <author>Sagara</author>
    <price>1000.00</price>
</book>
<book id="4" isbn="S033" category="English">
    <title>Romiyo Juliat</title>
    <author>Rathnayaka</author>
    <price>3000.00</price>
</book>
<book id="5" isbn="S063" category="Net Working">
    <title>Net Working</title>
    <author>Kavidhu Rathnayaka</author>
    <price>1000.00</price>
</book>
</library>

```

Old Book Table

Title	Author	Price
C++	Saman Ekanayaka	1000.00
Moter Macanic	Kavidhu Rathnayaka	12000.00
BST	Sagara	1000.00
Romiyo Juliat	Rathnayaka	3000.00
Net Working	Kavidhu Rathnayaka	1000.00

Updated Book Table

Title	Author	Price
C++	Saman Ekanayaka	
Moter Macanic	Kavidhu Rathnayaka	4000.00
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