

Java Full Stack Development

Skilling-3

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1. Hermione wants to know more about XML before attending classes. So, she visited professors and each of them gave her some questions regarding XML.

a. As Hermoine requested Professor Trelawney he gave her a task to check the OWL test papers. He asked her to check the XML written by a student in Owl's test and correct it according to XML syntax rules help her out in doing this task

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

<Diary>

<Monday>

<Monday date="31 "July"" year=1994/>

<name>Harry Potter</name>

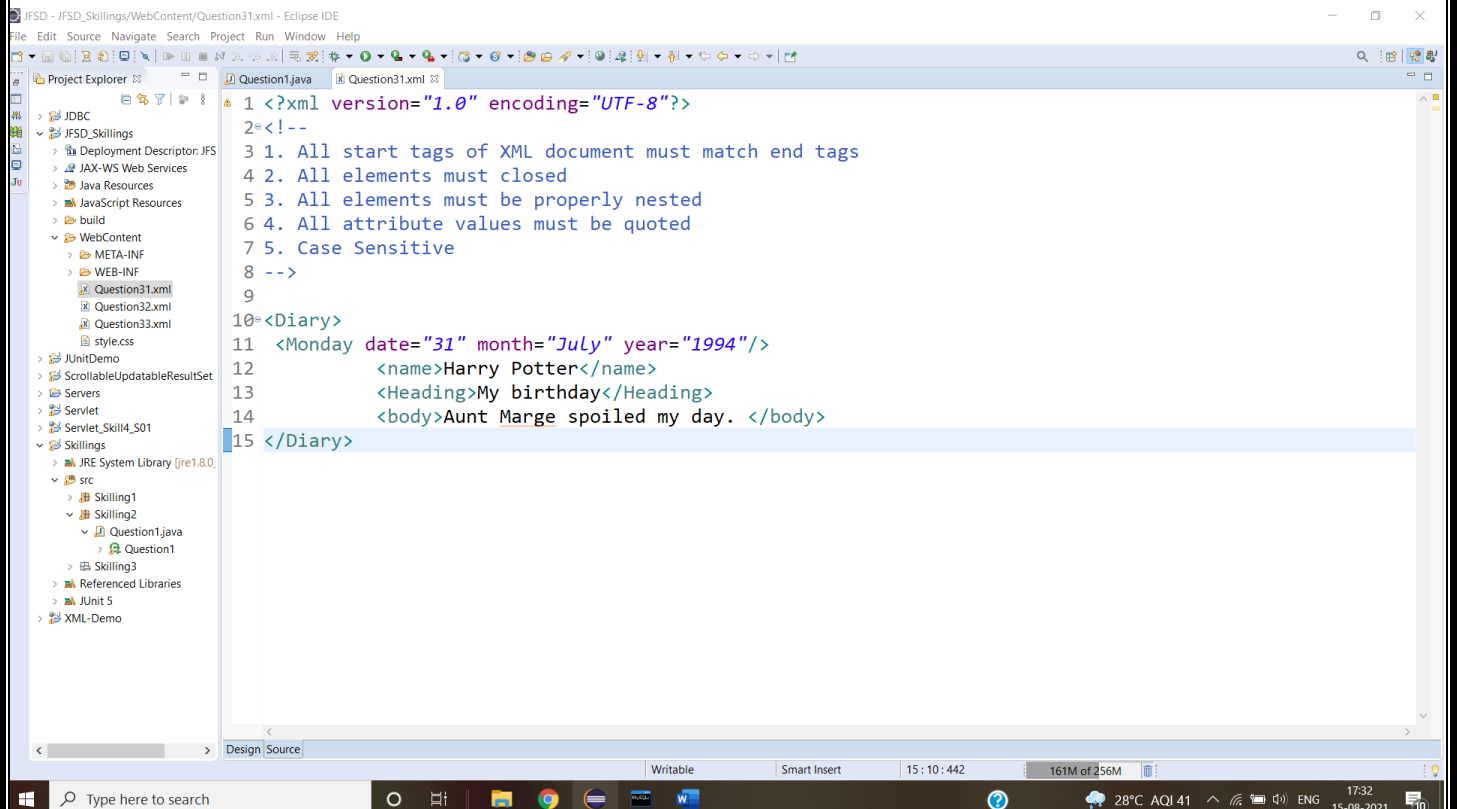
<Heading>My birthday</heading>

<body>Aunt Marge spoiled my day. <body><! --My-- notes -->

</Diary>

</Monday>
```

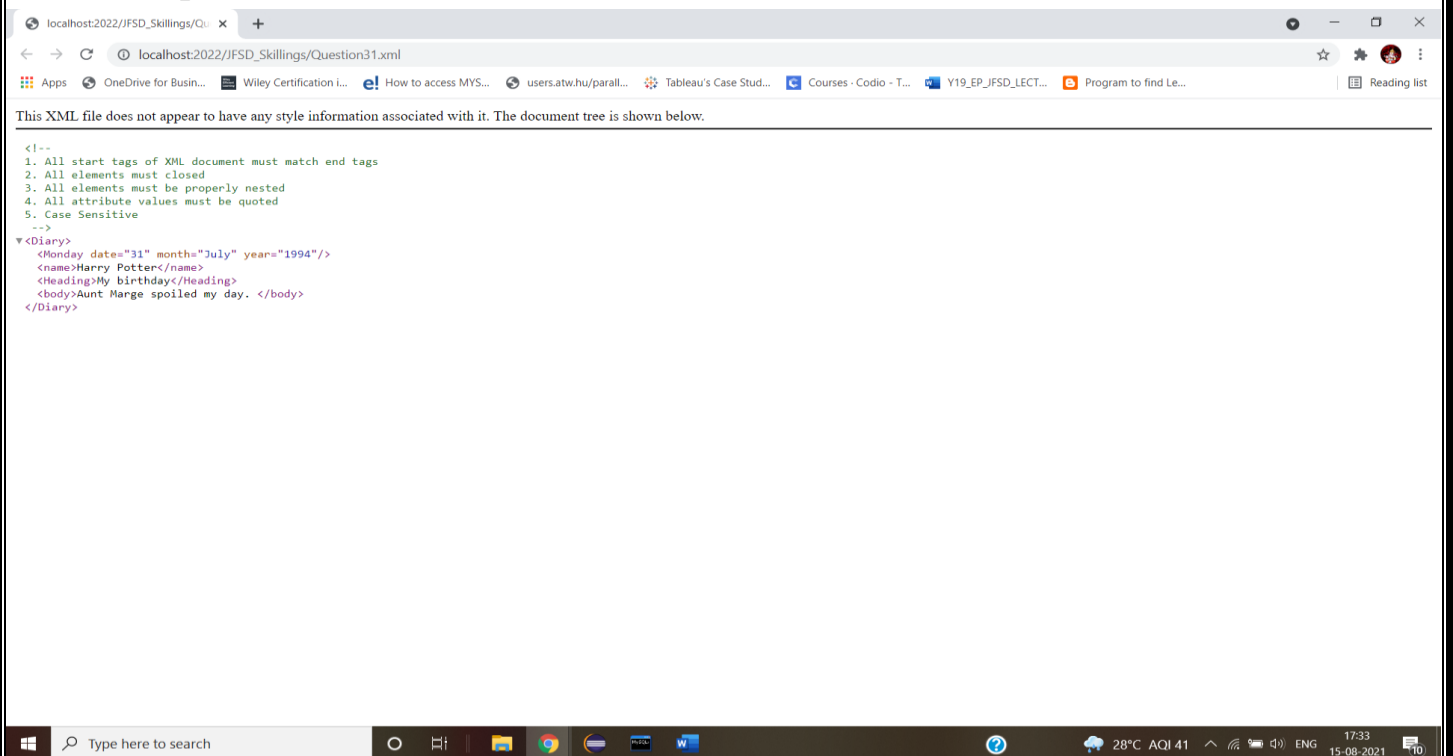
Code Screenshot:

A screenshot of the Eclipse IDE interface. The main editor window displays an XML file named 'Question31.xml'. The XML code is as follows:

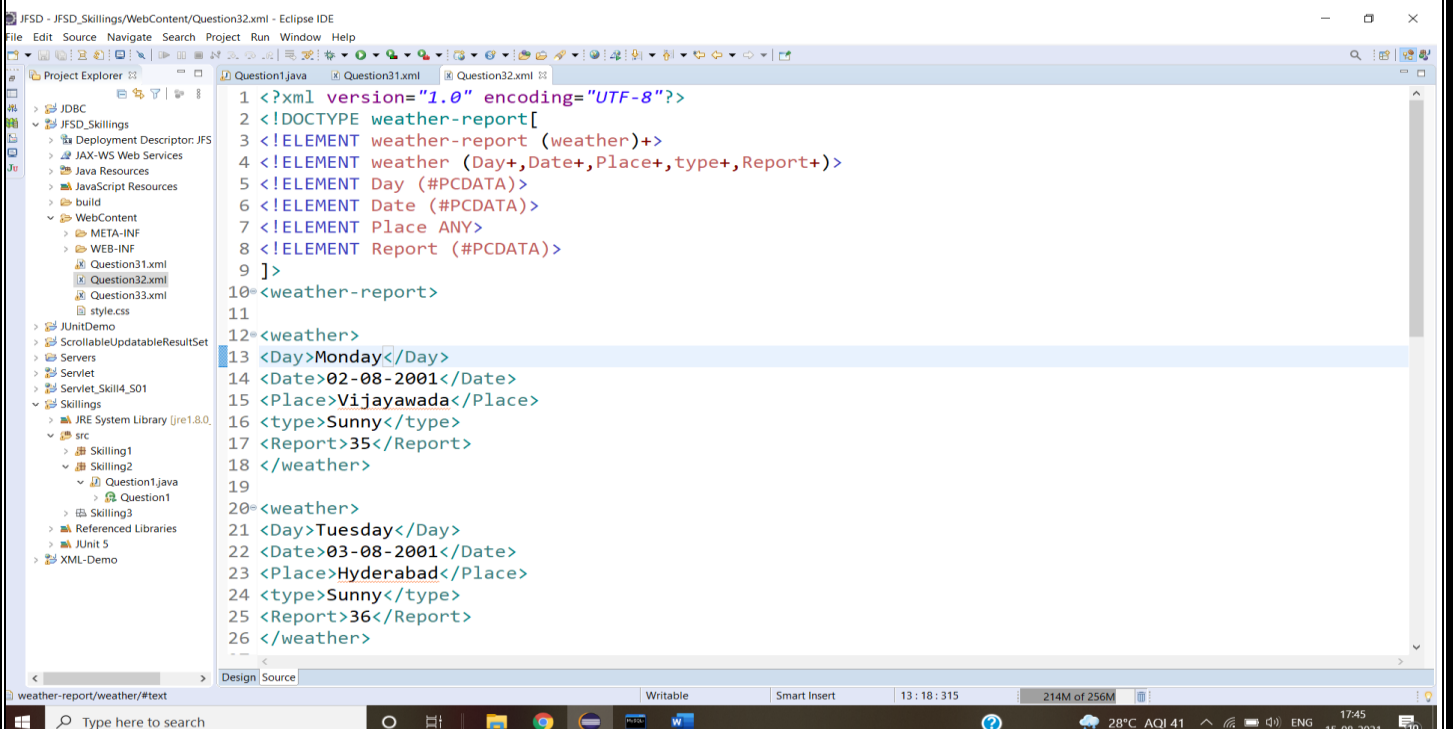
```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!--
3 1. All start tags of XML document must match end tags
4 2. All elements must be closed
5 3. All elements must be properly nested
6 4. All attribute values must be quoted
7 5. Case Sensitive
8 -->
9
10 <Diary>
11   <Monday date="31 "July"" year="1994"/>
12     <name>Harry Potter</name>
13     <Heading>My birthday</Heading>
14     <body>Aunt Marge spoiled my day. </body>
15 </Diary>
```

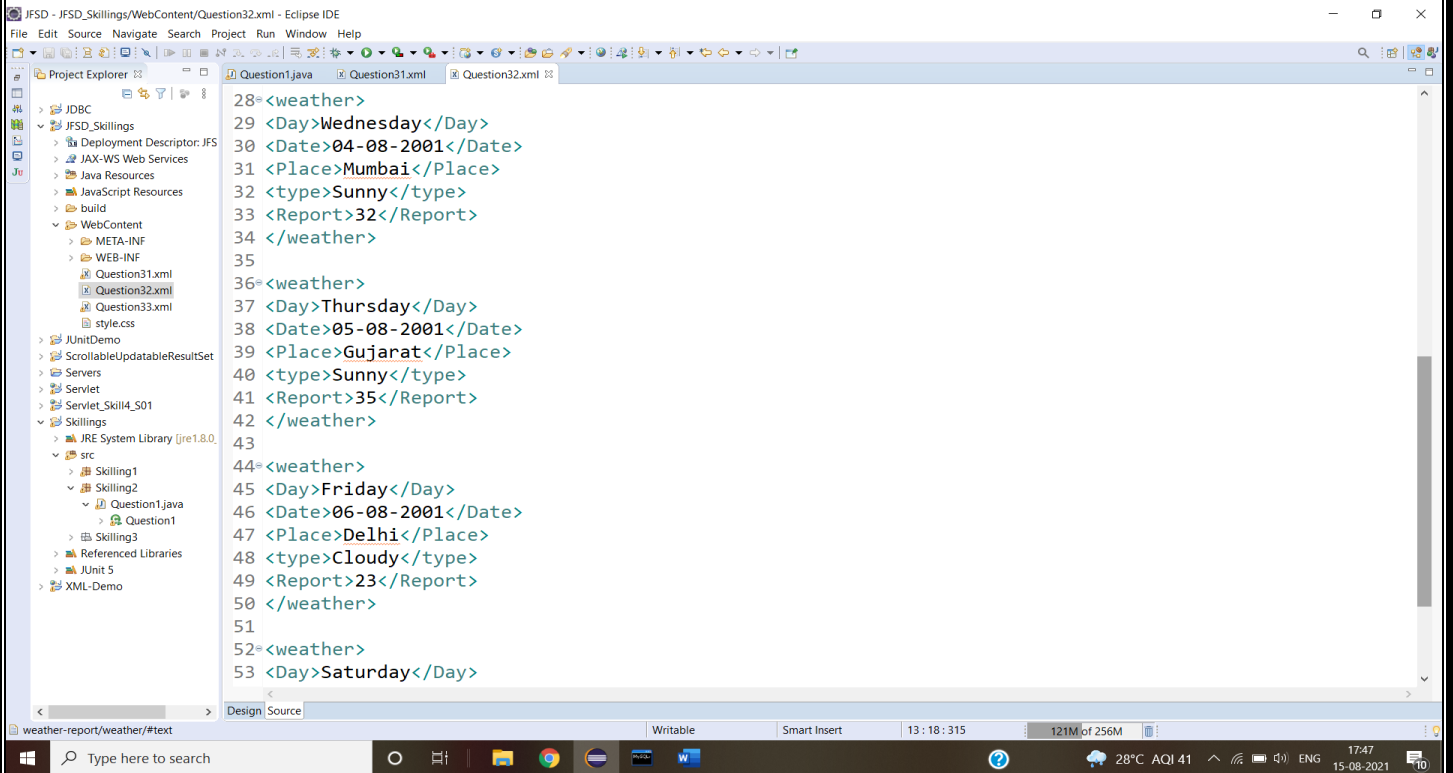
The left-hand side shows the Project Explorer with a tree view of the project structure, including folders like 'JDBC', 'JFSD_Skillings', 'WebContent', and 'src'. The bottom status bar shows 'Design Source', 'Writable', 'Smart Insert', and the time '15:10:442'.

Output Screenshot:



b. Then Hermione went to Professor Rubeus Hagrid who gives his utmost care for his magical creatures. As We cannot predict the weather in Hogwarts, she was asked to Create a well-formed XML for reporting weather forecasts in the wizarding world from Monday to Saturday for Professor Rubeus Hagrid to provide shelter for his magical creatures. Write the place, date, report, and add an internal dtd to validate the elements.

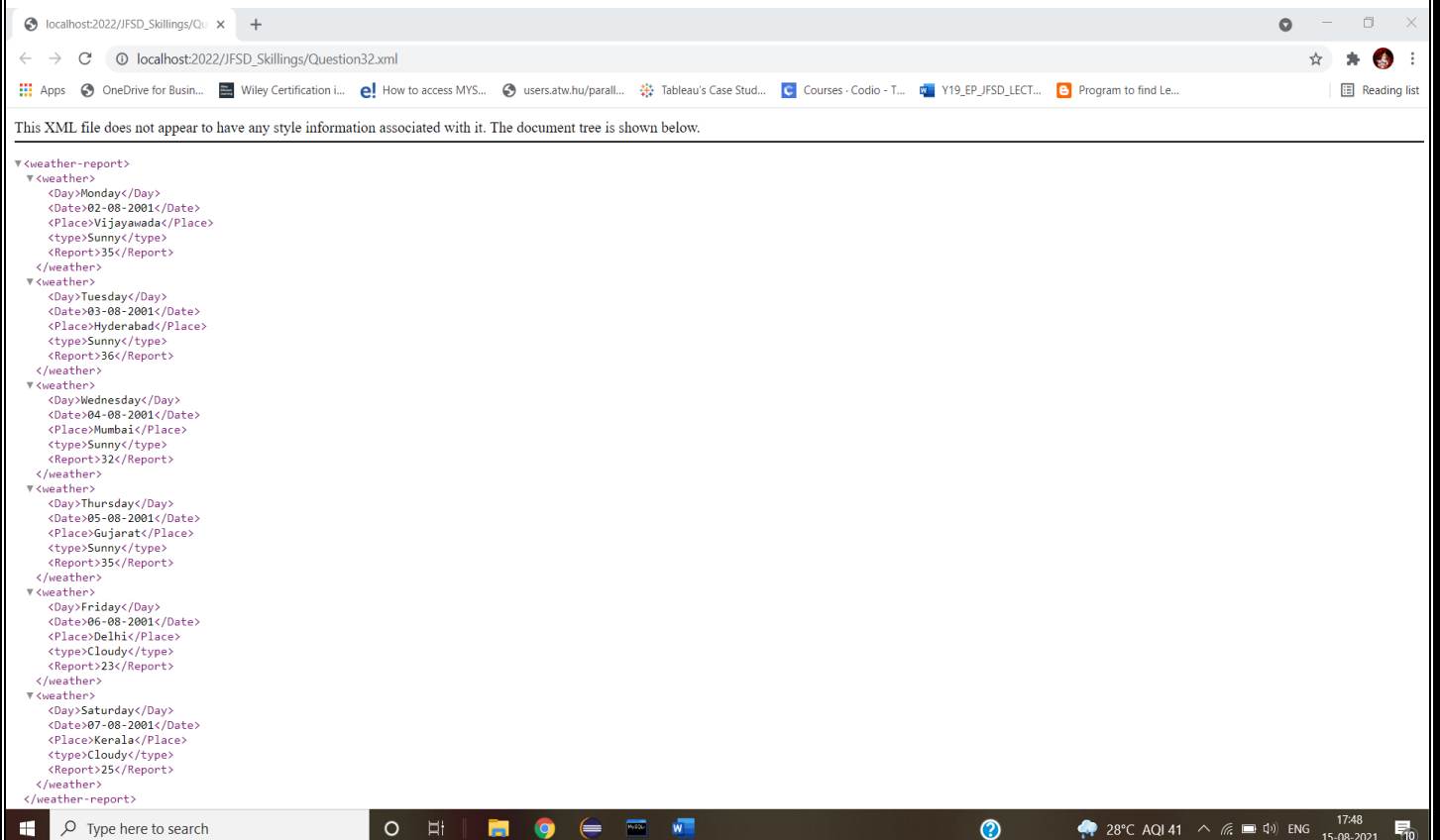




The screenshot shows the Eclipse IDE with the file `Question32.xml` open. The XML content is as follows:

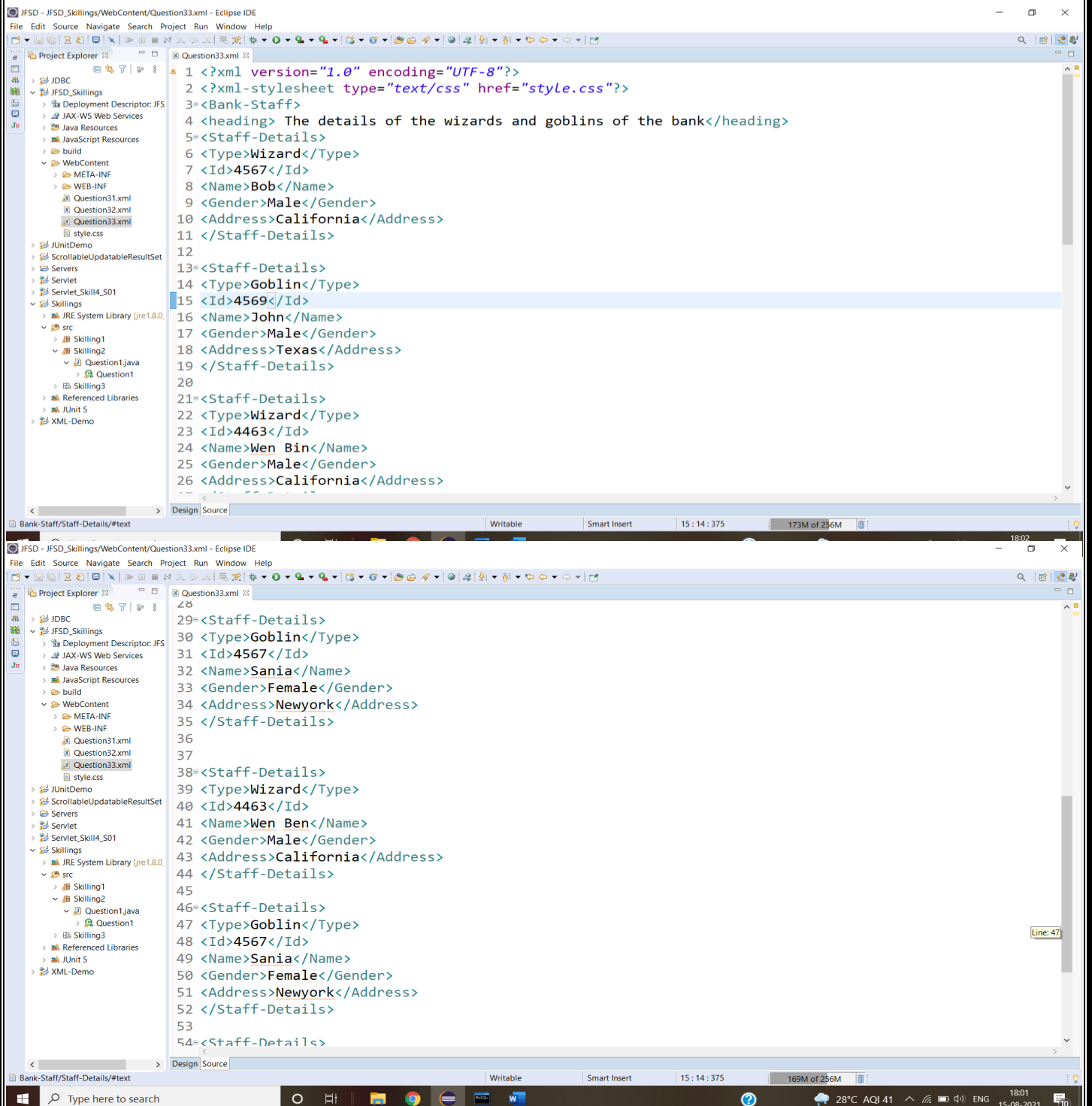
```
28<weather>
29  <Day>Wednesday</Day>
30  <Date>04-08-2001</Date>
31  <Place>Mumbai</Place>
32  <type>Sunny</type>
33  <Report>32</Report>
34</weather>
35
36<weather>
37  <Day>Thursday</Day>
38  <Date>05-08-2001</Date>
39  <Place>Gujarat</Place>
40  <type>Sunny</type>
41  <Report>35</Report>
42</weather>
43
44<weather>
45  <Day>Friday</Day>
46  <Date>06-08-2001</Date>
47  <Place>Delhi</Place>
48  <type>Cloudy</type>
49  <Report>23</Report>
50</weather>
51
52<weather>
53  <Day>Saturday</Day>
```

Output Screenshot:



c. She is much more excited after completing the task given by Professor Trelawney. Then she visited A wizarding bank that wants to store some data regarding wizards and goblins. Hogwarts is a place where almost every person knows everything, the wizarding bank staff came to know that Hermione is studying XML, so they requested her to Create a well-formed XML for displaying the details of the wizards and goblins of the bank and provide some additional information about the details like gender, address etc. and link to the CSS stylesheet.

Code Screenshot:



The image displays two screenshots of the Eclipse IDE, showing the development of an XML file named `Question33.xml`. The Project Explorer on the left shows the project structure, including `WebContent` and `style.css`.

Top Screenshot: The XML code is as follows:

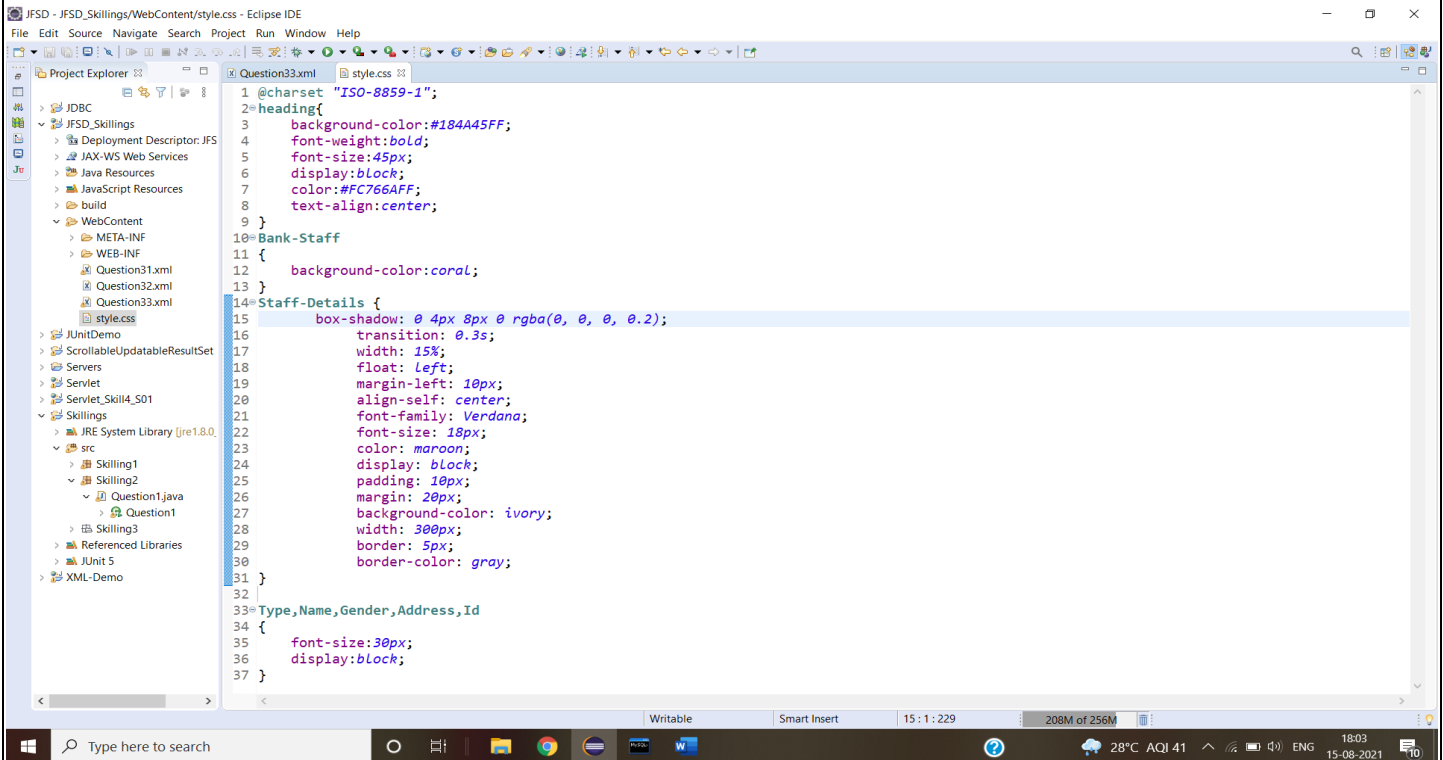
```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?xml-stylesheet type="text/css" href="style.css"?>
3 <Bank-Staff>
4 <heading> The details of the wizards and goblins of the bank</heading>
5 <Staff-Details>
6 <Type>Wizard</Type>
7 <Id>4567</Id>
8 <Name>Bob</Name>
9 <Gender>Male</Gender>
10 <Address>California</Address>
11 </Staff-Details>
12
13 <Staff-Details>
14 <Type>Goblin</Type>
15 <Id>4569</Id>
16 <Name>John</Name>
17 <Gender>Male</Gender>
18 <Address>Texas</Address>
19 </Staff-Details>
20
21 <Staff-Details>
22 <Type>Wizard</Type>
23 <Id>4463</Id>
24 <Name>Wen Bin</Name>
25 <Gender>Male</Gender>
26 <Address>California</Address>
```

Bottom Screenshot: The XML code continues from line 29:

```
29 <Staff-Details>
30 <Type>Goblin</Type>
31 <Id>4567</Id>
32 <Name>Sania</Name>
33 <Gender>Female</Gender>
34 <Address>Newyork</Address>
35 </Staff-Details>
36
37
38 <Staff-Details>
39 <Type>Wizard</Type>
40 <Id>4463</Id>
41 <Name>Wen Ben</Name>
42 <Gender>Male</Gender>
43 <Address>California</Address>
44 </Staff-Details>
45
46 <Staff-Details>
47 <Type>Goblin</Type>
48 <Id>4567</Id>
49 <Name>Sania</Name>
50 <Gender>Female</Gender>
51 <Address>Newyork</Address>
52 </Staff-Details>
53
54 <Staff-Details>
```

The bottom screenshot also shows the Windows taskbar at the bottom of the screen.

CSS File:



The screenshot shows the Eclipse IDE with the 'style.css' file open. The Project Explorer on the left shows the project structure, including 'WebContent' and 'style.css'. The main editor displays the following CSS code:

```
1 @charset "ISO-8859-1";
2 heading{
3     background-color:#184A45FF;
4     font-weight:bold;
5     font-size:45px;
6     display:block;
7     color:#FC766AFF;
8     text-align:center;
9 }
10 Bank-Staff
11 {
12     background-color:coral;
13 }
14 Staff-Details {
15     box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);
16     transition: 0.3s;
17     width: 15%;
18     float: Left;
19     margin-left: 10px;
20     align-self: center;
21     font-family: Verdana;
22     font-size: 18px;
23     color: maroon;
24     display: block;
25     padding: 10px;
26     margin: 20px;
27     background-color: ivory;
28     width: 300px;
29     border: 5px;
30     border-color: gray;
31 }
32
33 Type,Name,Gender,Address,Id
34 {
35     font-size:30px;
36     display:block;
37 }
```

Output Screenshot:

