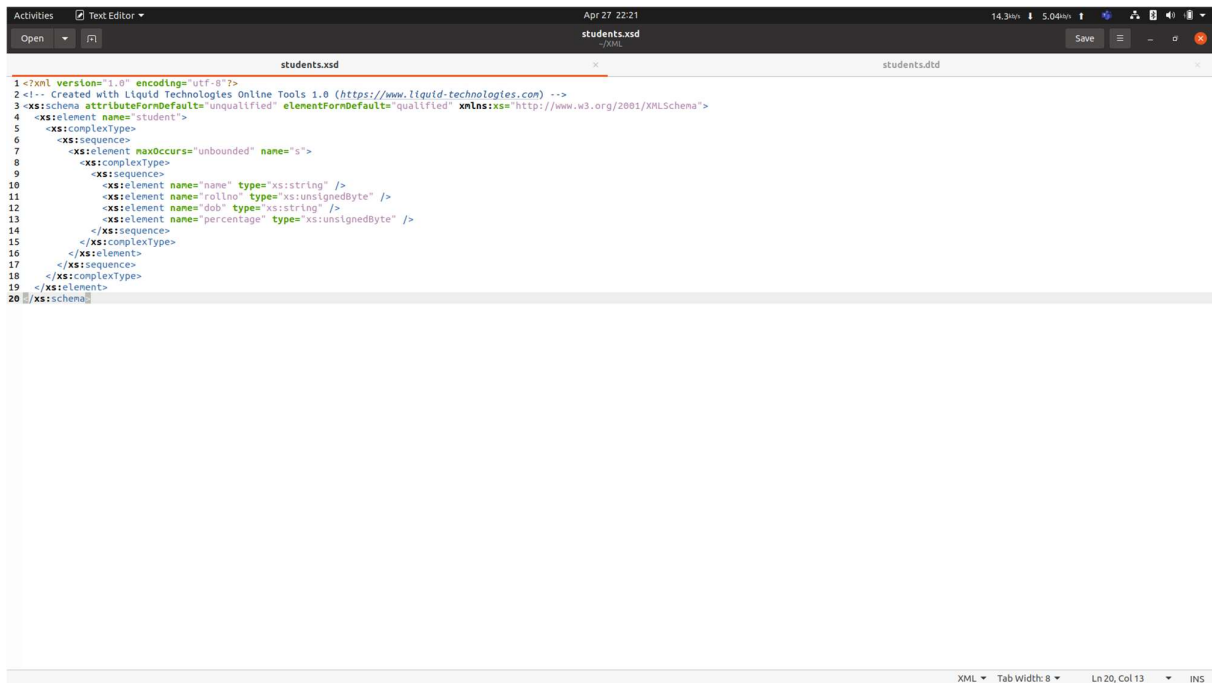


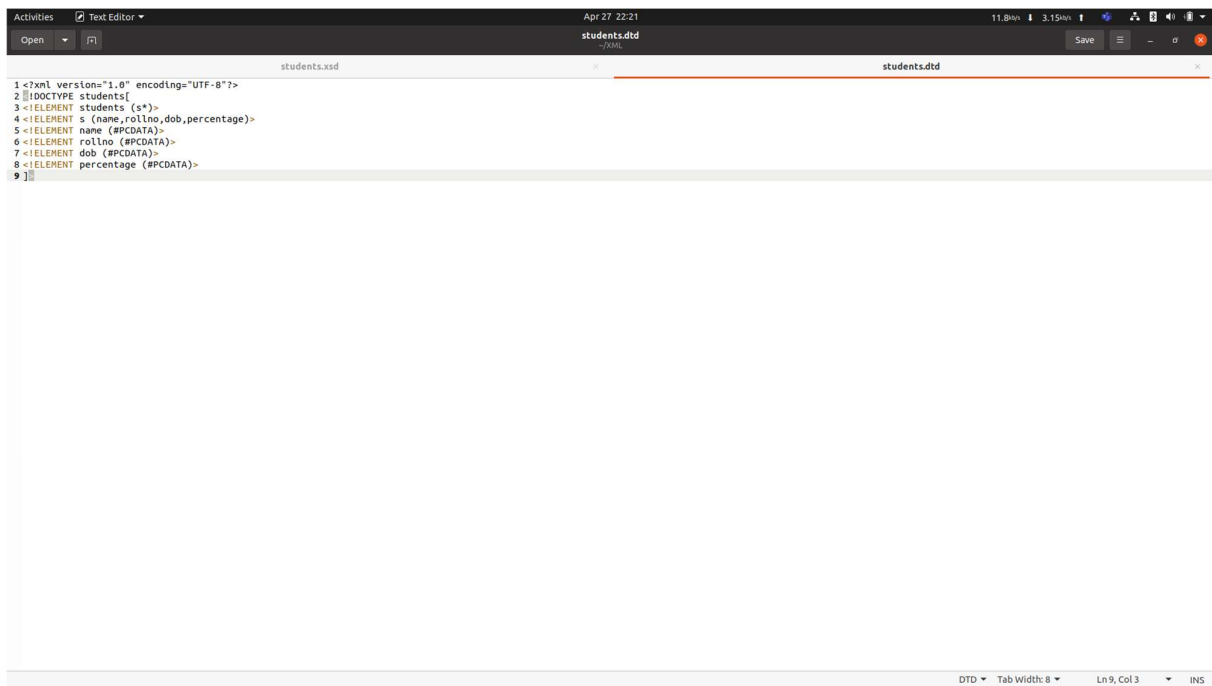
## WEB TECHNOLOGY ASSIGNMENT-1

1) Create a XML document consisting of details of set of students. Validate the document using XML schema and DTD.



```
1 <?xml version="1.0" encoding="utf-8"?>
2 <!-- Created with Liquid Technologies Online Tools 1.0 (https://www.liquid-technologies.com) -->
3 <!-- schema attributeFormDefault="unqualified" elementFormDefault="qualified" xmlns:xsd="http://www.w3.org/2001/XMLSchema" -->
4 <xs:schema xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
5   <xs:element name="student">
6     <xs:complexType>
7       <xs:sequence>
8         <xs:element maxOccurs="unbounded" name="s">
9           <xs:complexType>
10            <xs:sequence>
11              <xs:element name="name" type="xs:string" />
12              <xs:element name="rollno" type="xs:unsignedByte" />
13              <xs:element name="dob" type="xs:string" />
14              <xs:element name="percentage" type="xs:unsignedByte" />
15            </xs:sequence>
16          </xs:complexType>
17        </xs:element>
18      </xs:sequence>
19    </xs:complexType>
20  </xs:element>
21 </xs:schema>
```

XML Tab Width: 8 Ln 20, Col 13 INS



```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE students[
3   <!ELEMENT students (s*)>
4   <!ELEMENT s (name,rollno,dob,percentage)>
5   <!ELEMENT name (#PCDATA)>
6   <!ELEMENT rollno (#PCDATA)>
7   <!ELEMENT dob (#PCDATA)>
8   <!ELEMENT percentage (#PCDATA)>
9 ]>
```

DTD Tab Width: 8 Ln 9, Col 3 INS

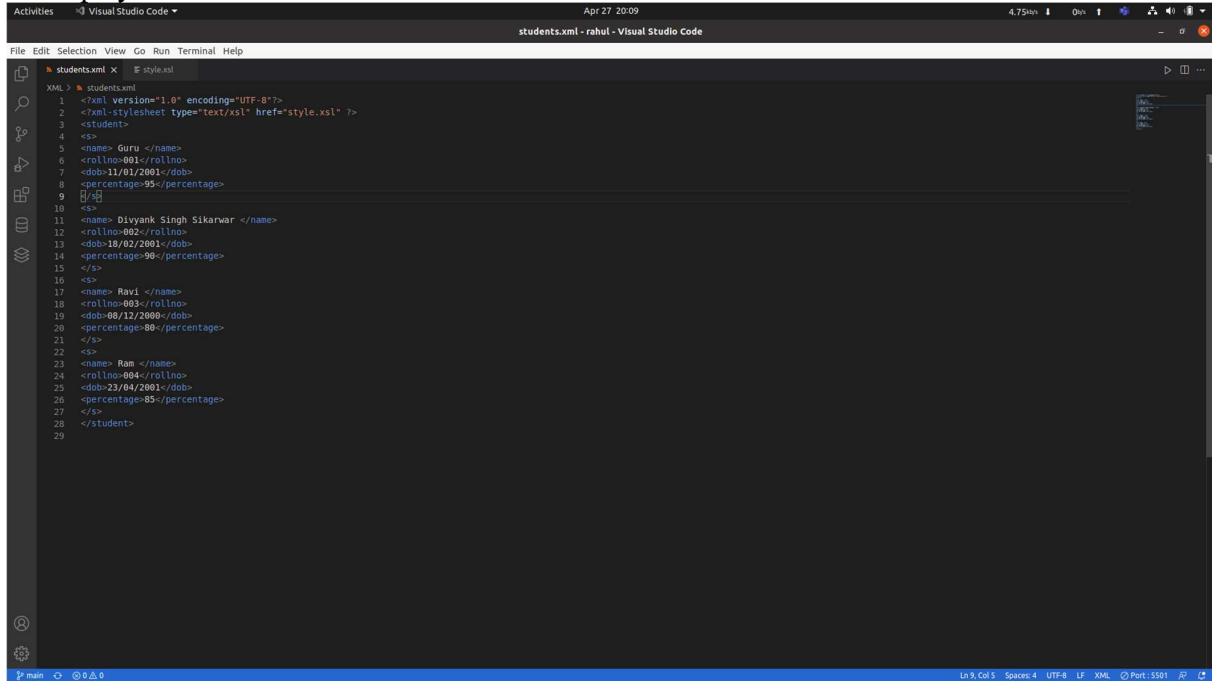
2) Consider a database table with the following structure:

Student (name, rollno, dob, percentage)

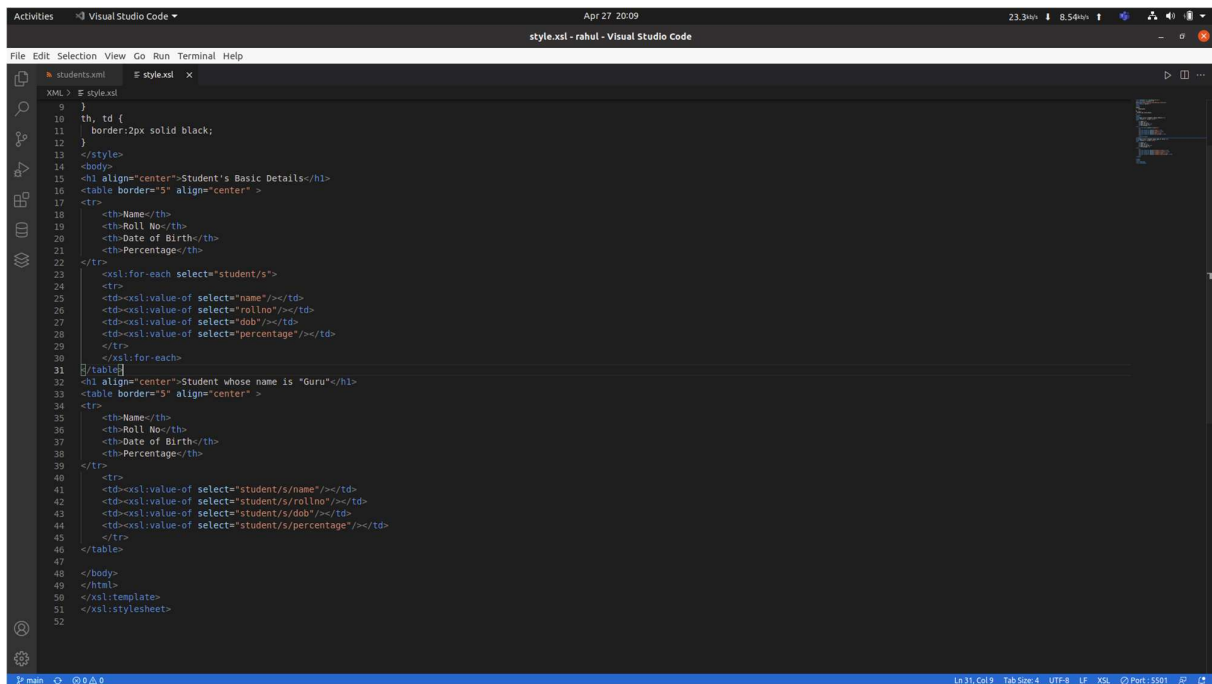
Write XSLT to

i. Display all the details of all the students.

ii. Display the details of a student whose name='GURU'.



```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?xml-stylesheet type="text/xsl" href="style.xml" ?>
3 <students>
4   <student>
5     <name>Guru </name>
6     <rollno>001</rollno>
7     <dob>11/01/2001</dob>
8     <percentage>95</percentage>
9   </student>
10 </students>
11 <student>
12   <name>Divyank Singh Sikarwar </name>
13   <rollno>002</rollno>
14   <dob>18/02/2001</dob>
15   <percentage>90</percentage>
16 </student>
17 <student>
18   <name>Ravi </name>
19   <rollno>003</rollno>
20   <dob>08/12/2000</dob>
21   <percentage>80</percentage>
22 </student>
23 <student>
24   <name>Ram </name>
25   <rollno>004</rollno>
26   <dob>23/04/2001</dob>
27   <percentage>85</percentage>
28 </student>
29 </students>
```



```
1 <?xml-stylesheet type="text/xsl" href="style.xml" ?>
2 <xsl:stylesheet version="1.0" >
3   <xsl:output method="html" />
4   <xsl:template name="student">
5     <table border="1">
6       <thead>
7         <tr>
8           <th>Name</th>
9           <th>Roll No</th>
10          <th>Date of Birth</th>
11          <th>Percentage</th>
12        </tr>
13      </thead>
14      <xsl:for-each select="student">
15        <tr>
16          <td><xsl:value-of select="name"/></td>
17          <td><xsl:value-of select="rollno"/></td>
18          <td><xsl:value-of select="dob"/></td>
19          <td><xsl:value-of select="percentage"/></td>
20        </tr>
21      </xsl:for-each>
22    </table>
23  </xsl:template>
24  <xsl:template name="student-name">
25    <table border="1">
26      <thead>
27        <tr>
28          <th>Name</th>
29          <th>Roll No</th>
30          <th>Date of Birth</th>
31          <th>Percentage</th>
32        </tr>
33      </thead>
34      <tr>
35        <td><xsl:value-of select="student/s/name"/></td>
36        <td><xsl:value-of select="student/s/rollno"/></td>
37        <td><xsl:value-of select="student/s/dob"/></td>
38        <td><xsl:value-of select="student/s/percentage"/></td>
39      </tr>
40    </table>
41  </xsl:template>
42 </xsl:stylesheet>
```

### Student's Basic Details

Name	Roll No	Date of Birth	Percentage
Guru	001	11/01/2001	95
Divyank Singh Sikarwar	002	18/02/2001	90
Harvi	003	08/12/2000	80
Ram	004	23/04/2001	65

### Student whose name is "Guru"

Name	Roll No	Date of Birth	Percentage
Guru	001	11/01/2001	95

KAMALESHWARAN B -19BIT010  
RAHUL KARTHIK A U -19BIT031