CSE 3002

INTERNET & WEB PROGRAMMING

Lab Activity 8

L29+L30 | PLB117A

FALL SEMESTER 2021-22

by

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Question

Activity - 8

Mark as done

Design an XML data for medical billing calculation. Have separate XML file for one fr stock, one for billing, one for sale report day wise. Form the corresponding DTD and validate them
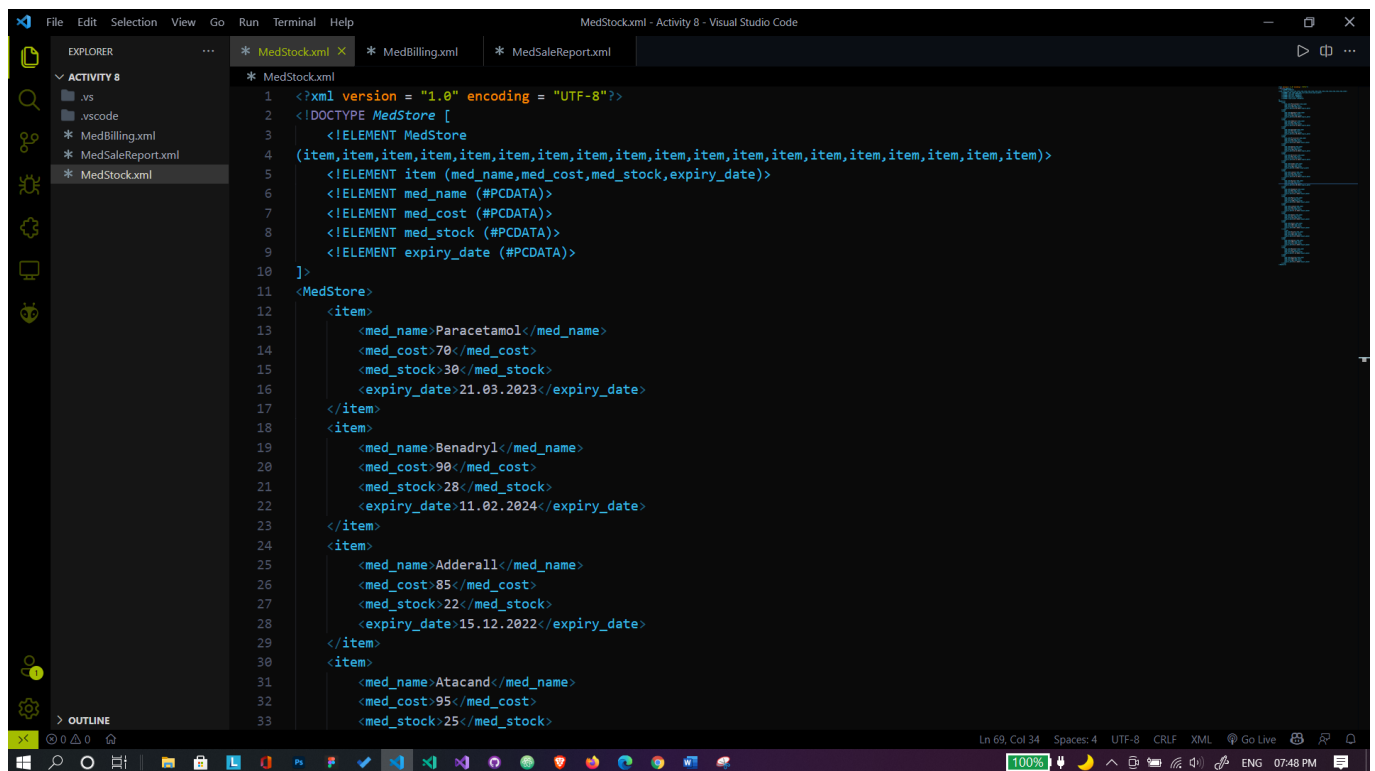
Solution

MedStock.xml

```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE MedStore [
    <!ELEMENT MedStore
(item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item)>
    <!ELEMENT item (med_name,med_cost,med_stock,expiry_date)>
    <!ELEMENT med_name (#PCDATA)>
    <!ELEMENT med_cost (#PCDATA)>
    <!ELEMENT med_stock (#PCDATA)>
    <!ELEMENT expiry_date (#PCDATA)>
]>
<MedStore>
    <item>
        <med_name>Paracetamol</med_name>
        <med_cost>70</med_cost>
        <med_stock>30</med_stock>
        <expiry_date>21.03.2023</expiry_date>
    </item>
    <item>
        <med_name>Benadryl</med_name>
        <med_cost>90</med_cost>
        <med_stock>28</med_stock>
        <expiry_date>11.02.2024</expiry_date>
    </item>
    <item>
        <med_name>Adderall</med_name>
```

```xml
        <med_cost>85</med_cost>
        <med_stock>22</med_stock>
        <expiry_date>15.12.2022</expiry_date>
    </item>
    <item>
        <med_name>Atacand</med_name>
        <med_cost>95</med_cost>
        <med_stock>25</med_stock>
        <expiry_date>11.10.2022</expiry_date>
    </item>
    <item>
        <med_name>Priscoline</med_name>
        <med_cost>40</med_cost>
        <med_stock>15</med_stock>
        <expiry_date>16.9.2023</expiry_date>
    </item>
    <item>
        <med_name>Zetia</med_name>
        <med_cost>65</med_cost>
        <med_stock>50</med_stock>
        <expiry_date>28.12.2022</expiry_date>
    </item>
    <item>
        <med_name>Brevital</med_name>
        <med_cost>95</med_cost>
        <med_stock>15</med_stock>
        <expiry_date>25.11.2023</expiry_date>
    </item>
    <item>
        <med_name>Cidex</med_name>
        <med_cost>215</med_cost>
        <med_stock>88</med_stock>
        <expiry_date>8.5.2023</expiry_date>
    </item>
    <item>
        <med_name>Lodine</med_name>
        <med_cost>75</med_cost>
        <med_stock>30</med_stock>
        <expiry_date>19.12.2021</expiry_date>
    </item>
    <item>
        <med_name>Dioval</med_name>
        <med_cost>20</med_cost>
        <med_stock>40</med_stock>
```

```xml
            <expiry_date>21.10.2022</expiry_date>
    </item>
    <item>
        <med_name>Dopamine</med_name>
        <med_cost>85</med_cost>
        <med_stock>15</med_stock>
        <expiry_date>14.3.2023</expiry_date>
    </item>
    <item>
        <med_name>Paxil</med_name>
        <med_cost>29</med_cost>
        <med_stock>100</med_stock>
        <expiry_date>10.3.2022</expiry_date>
    </item>
    <item>
        <med_name>Levbid</med_name>
        <med_cost>45</med_cost>
        <med_stock>70</med_stock>
        <expiry_date>3.12.2022</expiry_date>
    </item>
    <item>
        <med_name>Xanax</med_name>
        <med_cost>95</med_cost>
        <med_stock>32</med_stock>
        <expiry_date>19.9.2022</expiry_date>
    </item>
    <item>
        <med_name>Vexol</med_name>
        <med_cost>180</med_cost>
        <med_stock>35</med_stock>
        <expiry_date>30.4.2022</expiry_date>
    </item>
        <item>
        <med_name>Evista</med_name>
        <med_cost>120</med_cost>
        <med_stock>45</med_stock>
        <expiry_date>14.6.2022</expiry_date>
    </item>
    <item>
        <med_name>Amaryl</med_name>
        <med_cost>195</med_cost>
        <med_stock>15</med_stock>
        <expiry_date>31.8.2023</expiry_date>
    </item>
```

```xml
    <item>
        <med_name>Roxanol</med_name>
        <med_cost>65</med_cost>
        <med_stock>135</med_stock>
        <expiry_date>7.12.2022</expiry_date>
    </item>
    <item>
        <med_name>Zovirax</med_name>
        <med_cost>240</med_cost>
        <med_stock>80</med_stock>
        <expiry_date>31.2.2024</expiry_date>
    </item>
</MedStore>
```

```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE MedStore [
    <!ELEMENT MedStore
(item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item)>
    <!ELEMENT item (med_name,med_cost,med_stock,expiry_date)>
    <!ELEMENT med_name (#PCDATA)>
    <!ELEMENT med_cost (#PCDATA)>
    <!ELEMENT med_stock (#PCDATA)>
    <!ELEMENT expiry_date (#PCDATA)>
]>
<MedStore>
    <item>
        <med_name>Paracetamol</med_name>
        <med_cost>70</med_cost>
        <med_stock>30</med_stock>
        <expiry_date>21.03.2023</expiry_date>
    </item>
    <item>
        <med_name>Benadryl</med_name>
        <med_cost>90</med_cost>
        <med_stock>28</med_stock>
        <expiry_date>11.02.2024</expiry_date>
    </item>
    <item>
        <med_name>Adderall</med_name>
        <med_cost>85</med_cost>
        <med_stock>22</med_stock>
        <expiry_date>15.12.2022</expiry_date>
    </item>
    <item>
        <med_name>Atacand</med_name>
        <med_cost>95</med_cost>
        <med_stock>25</med_stock>
        <expiry_date>11.10.2022</expiry_date>
    </item>
    <item>
        <med_name>Priscoline</med_name>
        <med_cost>40</med_cost>
        <med_stock>15</med_stock>
        <expiry_date>16.9.2023</expiry_date>
    </item>
```

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```xml
<MedStore>
  <item>
    <med_name>Paracetamol</med_name>
    <med_cost>70</med_cost>
    <med_stock>30</med_stock>
    <expiry_date>21.03.2023</expiry_date>
  </item>
  <item>
    <med_name>Benadryl</med_name>
    <med_cost>90</med_cost>
    <med_stock>28</med_stock>
    <expiry_date>11.02.2024</expiry_date>
  </item>
  <item>
    <med_name>Adderall</med_name>
    <med_cost>85</med_cost>
    <med_stock>22</med_stock>
    <expiry_date>15.12.2022</expiry_date>
  </item>
  <item>
    <med_name>Atacand</med_name>
    <med_cost>95</med_cost>
    <med_stock>25</med_stock>
    <expiry_date>11.10.2022</expiry_date>
  </item>
  <item>
    <med_name>Priscoline</med_name>
    <med_cost>40</med_cost>
    <med_stock>15</med_stock>
    <expiry_date>16.9.2023</expiry_date>
  </item>
  <item>
    <med_name>Zetia</med_name>
    <med_cost>65</med_cost>
    <med_stock>50</med_stock>
    <expiry_date>28.12.2022</expiry_date>
  </item>
  <item>
    <med_name>Brevital</med_name>
    <med_cost>95</med_cost>
    <med_stock>15</med_stock>
    <expiry_date>25.11.2023</expiry_date>
  </item>
  <item>
```
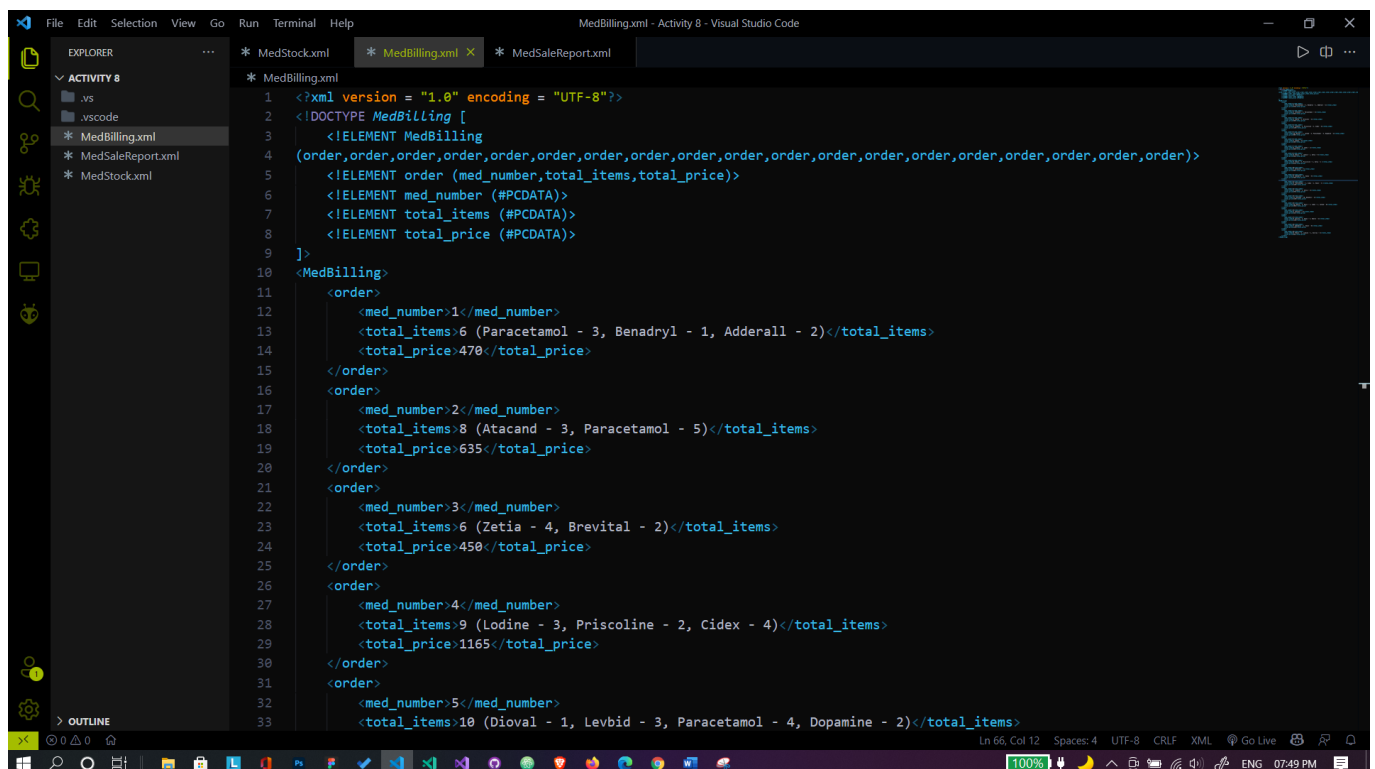
MedBilling.xml

```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE MedBilling [
    <!ELEMENT MedBilling
(order,order,order,order,order,order,order,order,order,order,order,order,order,order,ord
er,order,order,order,order)>
    <!ELEMENT order (med_number,total_items,total_price)>
    <!ELEMENT med_number (#PCDATA)>
    <!ELEMENT total_items (#PCDATA)>
    <!ELEMENT total_price (#PCDATA)>
]>
<MedBilling>
    <order>
        <med_number>1</med_number>
        <total_items>6 (Paracetamol - 3, Benadryl - 1, Adderall - 2)</total_items>
        <total_price>470</total_price>
    </order>
    <order>
        <med_number>2</med_number>
        <total_items>8 (Atacand - 3, Paracetamol - 5)</total_items>
        <total_price>635</total_price>
    </order>
    <order>
        <med_number>3</med_number>
        <total_items>6 (Zetia - 4, Brevital - 2)</total_items>
        <total_price>450</total_price>
    </order>
    <order>
        <med_number>4</med_number>
        <total_items>9 (Lodine - 3, Priscoline - 2, Cidex - 4)</total_items>
        <total_price>1165</total_price>
    </order>
    <order>
        <med_number>5</med_number>
        <total_items>10 (Dioval - 1, Levbid - 3, Paracetamol - 4, Dopamine -
2)</total_items>
        <total_price>605</total_price>
    </order>
    <order>
        <med_number>6</med_number>
        <total_items>3 (Xanax - 3)</total_items>
        <total_price>285</total_price>
```

```xml
    </order>
    <order>
        <med_number>7</med_number>
        <total_items>6 (Lodine - 5, Cidex - 1)</total_items>
        <total_price>590</total_price>
    </order>
    <order>
        <med_number>8</med_number>
        <total_items>8 (Paxil - 2, Levbid - 1, Zetia - 5)</total_items>
        <total_price>428</total_price>
    </order>
    <order>
        <med_number>9</med_number>
        <total_items>9 (Vexol - 4, Priscoline - 3, Zetia - 2 )</total_items>
        <total_price>970</total_price>
    </order>
    <order>
        <med_number>10</med_number>
        <total_items>7 (Brevital - 7)</total_items>
        <total_price>665</total_price>
    </order>
    <order>
        <med_number>11</med_number>
        <total_items>8 (Benadryl - 4, Xanax - 4)</total_items>
        <total_price>740</total_price>
    </order>
    <order>
        <med_number>12</med_number>
        <total_items>8 (Paracetamol - 3, Cidex - 1, Vexol - 4 )</total_items>
        <total_price>1145</total_price>
    </order>
    <order>
        <med_number>13</med_number>
        <total_items>4 (Lodine - 1, Zetia - 3)</total_items>
        <total_price>270</total_price>
    </order>
    <order>
        <med_number>14</med_number>
        <total_items>12 (Atacand - 10, Benadryl - 2)</total_items>
        <total_price>1130</total_price>
    </order>
    <order>
        <med_number>15</med_number>
        <total_items>18 (Zetia - 6, Paxil - 3, Cidex - 1, Levbid - 8)</total_items>
```

```xml
        <total_price>1052</total_price>
    </order>
    <order>
        <med_number>16</med_number>
        <total_items>5 (Roxanol - 5)</total_items>
        <total_price>325</total_price>
    </order>
    <order>
        <med_number>17</med_number>
        <total_items>9 (Evista - 3, Xanax - 4, Amaryl - 2)</total_items>
        <total_price>1130</total_price>
    </order>
    <order>
        <med_number>18</med_number>
        <total_items>7 (Benadryl - 1, Vexol - 6)</total_items>
        <total_price>1170</total_price>
    </order>
    <order>
        <med_number>19</med_number>
        <total_items>6 (Paxil - 2, Liodine - 1, Zovirax - 3)</total_items>
        <total_price>853</total_price>
    </order>
</MedBilling>
```

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```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE MedBilling [
    <!ELEMENT MedBilling
 (order,order,order,order,order,order,order,order,order,order,order,order,order,order,order,order,order,order)>
    <!ELEMENT order (med_number,total_items,total_price)>
    <!ELEMENT med_number (#PCDATA)>
    <!ELEMENT total_items (#PCDATA)>
    <!ELEMENT total_price (#PCDATA)>
]>
<MedBilling>
    <order>
        <med_number>1</med_number>
        <total_items>6 (Paracetamol - 3, Benadryl - 1, Adderall - 2)</total_items>
        <total_price>470</total_price>
    </order>
    <order>
        <med_number>2</med_number>
        <total_items>8 (Atacand - 3, Paracetamol - 5)</total_items>
        <total_price>635</total_price>
    </order>
    <order>
        <med_number>3</med_number>
        <total_items>6 (Zetia - 4, Brevital - 2)</total_items>
        <total_price>450</total_price>
    </order>
    <order>
        <med_number>4</med_number>
        <total_items>9 (Lodine - 3, Priscoline - 2, Cidex - 4)</total_items>
        <total_price>1165</total_price>
    </order>
    <order>
        <med_number>5</med_number>
        <total_items>10 (Dioval - 1, Levbid - 3, Paracetamol - 4, Dopamine - 2)</total_items>
        <total_price>605</total_price>
    </order>
    <order>
        <med_number>6</med_number>
        <total_items>3 (Xanax - 3)</total_items>
        <total_price>285</total_price>
    </order>
    <order>
```

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```xml
<MedBilling>
  <order>
    <med_number>1</med_number>
    <total_items>6 (Paracetamol - 3, Benadryl - 1, Adderall - 2)</total_items>
    <total_price>470</total_price>
  </order>
  <order>
    <med_number>2</med_number>
    <total_items>8 (Atacand - 3, Paracetamol - 5)</total_items>
    <total_price>635</total_price>
  </order>
  <order>
    <med_number>3</med_number>
    <total_items>6 (Zetia - 4, Brevital - 2)</total_items>
    <total_price>450</total_price>
  </order>
  <order>
    <med_number>4</med_number>
    <total_items>9 (Lodine - 3, Priscoline - 2, Cidex - 4)</total_items>
    <total_price>1165</total_price>
  </order>
  <order>
    <med_number>5</med_number>
    <total_items>10 (Dioval - 1, Levbid - 3, Paracetamol - 4, Dopamine - 2)</total_items>
    <total_price>605</total_price>
  </order>
  <order>
    <med_number>6</med_number>
    <total_items>3 (Xanax - 3)</total_items>
    <total_price>285</total_price>
  </order>
  <order>
    <med_number>7</med_number>
    <total_items>6 (Lodine - 5, Cidex - 1)</total_items>
    <total_price>590</total_price>
  </order>
  <order>
    <med_number>8</med_number>
    <total_items>8 (Paxil - 2, Levbid - 1, Zetia - 5)</total_items>
    <total_price>428</total_price>
  </order>
  <order>
    <med_number>9</med_number>
    <total_items>9 (Vexol - 4, Priscoline - 3, Zetia - 2 )</total_items>
```
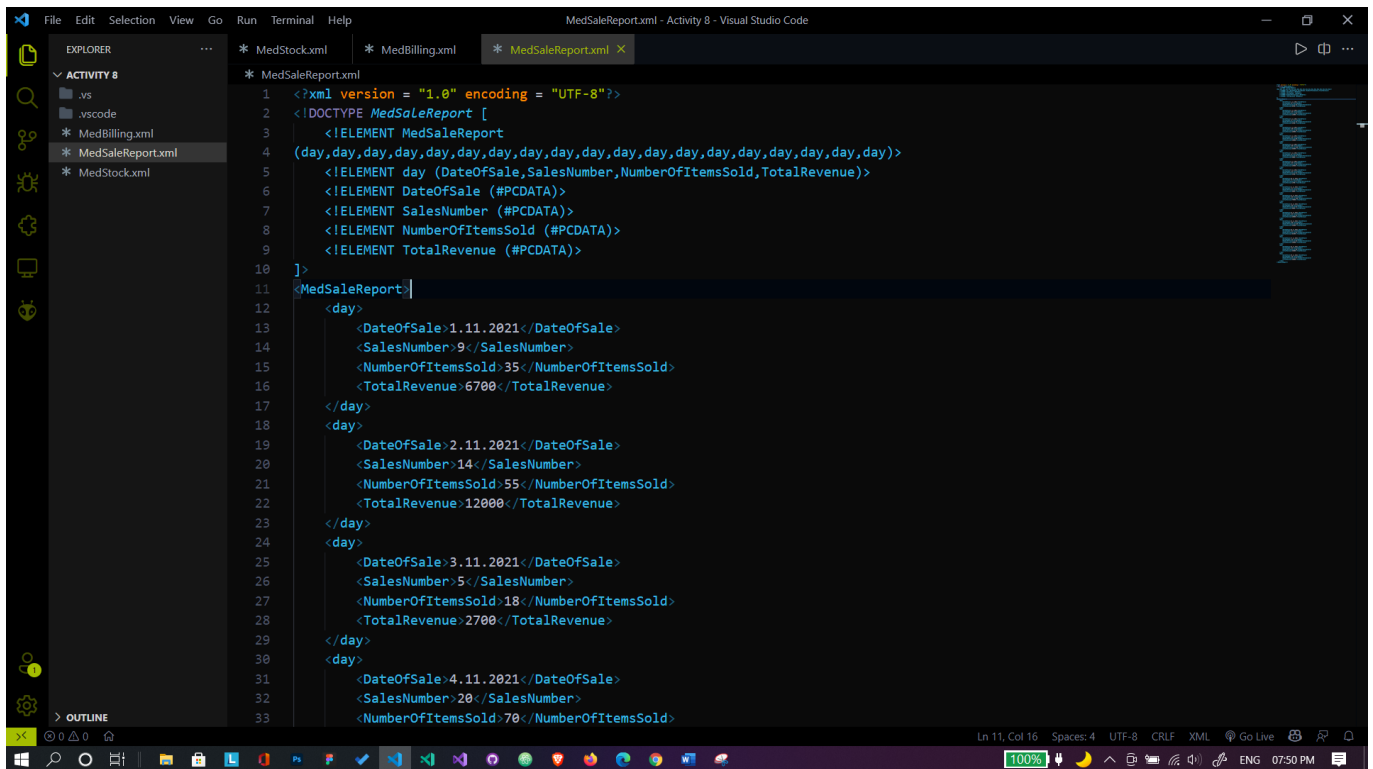
sharadindu.adhikari2019@vitstudent.ac.in

MedSaleReport.xml

```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE MedSaleReport [
    <!ELEMENT MedSaleReport
(day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day)>
    <!ELEMENT day (DateOfSale,SalesNumber,NumberOfItemsSold,TotalRevenue)>
    <!ELEMENT DateOfSale (#PCDATA)>
    <!ELEMENT SalesNumber (#PCDATA)>
    <!ELEMENT NumberOfItemsSold (#PCDATA)>
    <!ELEMENT TotalRevenue (#PCDATA)>
]>
<MedSaleReport>
    <day>
        <DateOfSale>1.11.2021</DateOfSale>
        <SalesNumber>9</SalesNumber>
        <NumberOfItemsSold>35</NumberOfItemsSold>
        <TotalRevenue>6700</TotalRevenue>
    </day>
    <day>
        <DateOfSale>2.11.2021</DateOfSale>
        <SalesNumber>14</SalesNumber>
        <NumberOfItemsSold>55</NumberOfItemsSold>
        <TotalRevenue>12000</TotalRevenue>
    </day>
    <day>
        <DateOfSale>3.11.2021</DateOfSale>
        <SalesNumber>5</SalesNumber>
        <NumberOfItemsSold>18</NumberOfItemsSold>
        <TotalRevenue>2700</TotalRevenue>
    </day>
    <day>
        <DateOfSale>4.11.2021</DateOfSale>
        <SalesNumber>20</SalesNumber>
        <NumberOfItemsSold>70</NumberOfItemsSold>
        <TotalRevenue>24000</TotalRevenue>
    </day>
    <day>
        <DateOfSale>5.11.2021</DateOfSale>
        <SalesNumber>15</SalesNumber>
        <NumberOfItemsSold>60</NumberOfItemsSold>
        <TotalRevenue>19000</TotalRevenue>
    </day>
```
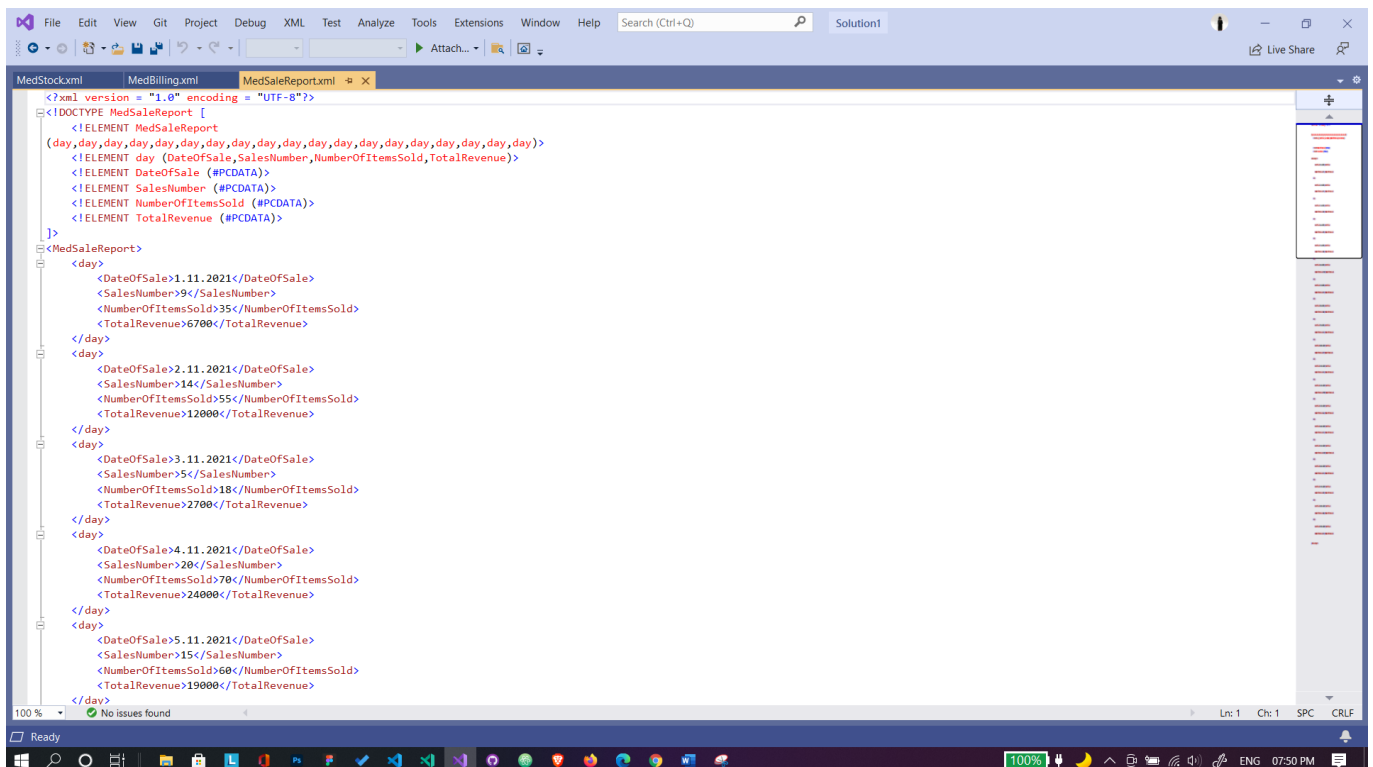
sharadindu.adhikari2019@vitstudent.ac.in

```xml
<day>
    <DateOfSale>6.11.2021</DateOfSale>
    <SalesNumber>30</SalesNumber>
    <NumberOfItemsSold>150</NumberOfItemsSold>
    <TotalRevenue>43000</TotalRevenue>
</day>
<day>
    <DateOfSale>7.11.2021</DateOfSale>
    <SalesNumber>8</SalesNumber>
    <NumberOfItemsSold>17</NumberOfItemsSold>
    <TotalRevenue>5000</TotalRevenue>
</day>
<day>
    <DateOfSale>8.11.2021</DateOfSale>
    <SalesNumber>25</SalesNumber>
    <NumberOfItemsSold>40</NumberOfItemsSold>
    <TotalRevenue>19500</TotalRevenue>
</day>
<day>
    <DateOfSale>9.11.2021</DateOfSale>
    <SalesNumber>14</SalesNumber>
    <NumberOfItemsSold>22</NumberOfItemsSold>
    <TotalRevenue>4700</TotalRevenue>
</day>
<day>
    <DateOfSale>10.11.2021</DateOfSale>
    <SalesNumber>5</SalesNumber>
    <NumberOfItemsSold>9</NumberOfItemsSold>
    <TotalRevenue>1700</TotalRevenue>
</day>
<day>
    <DateOfSale>11.11.2021</DateOfSale>
    <SalesNumber>17</SalesNumber>
    <NumberOfItemsSold>21</NumberOfItemsSold>
    <TotalRevenue>6000</TotalRevenue>
</day>
<day>
    <DateOfSale>12.11.2021</DateOfSale>
    <SalesNumber>26</SalesNumber>
    <NumberOfItemsSold>190</NumberOfItemsSold>
    <TotalRevenue>79000</TotalRevenue>
</day>
<day>
    <DateOfSale>13.11.2021</DateOfSale>
```

```xml
            <SalesNumber>20</SalesNumber>
            <NumberOfItemsSold>43</NumberOfItemsSold>
            <TotalRevenue>9000</TotalRevenue>
        </day>
        <day>
            <DateOfSale>14.11.2021</DateOfSale>
            <SalesNumber>25</SalesNumber>
            <NumberOfItemsSold>33</NumberOfItemsSold>
            <TotalRevenue>29000</TotalRevenue>
        </day>
        <day>
            <DateOfSale>15.11.2021</DateOfSale>
            <SalesNumber>40</SalesNumber>
            <NumberOfItemsSold>120</NumberOfItemsSold>
            <TotalRevenue>32000</TotalRevenue>
        </day>
        <day>
            <DateOfSale>16.11.2021</DateOfSale>
            <SalesNumber>31</SalesNumber>
            <NumberOfItemsSold>53</NumberOfItemsSold>
            <TotalRevenue>82400</TotalRevenue>
        </day>
        <day>
            <DateOfSale>17.11.2021</DateOfSale>
            <SalesNumber>15</SalesNumber>
            <NumberOfItemsSold>28</NumberOfItemsSold>
            <TotalRevenue>18900</TotalRevenue>
        </day>
        <day>
            <DateOfSale>18.11.2021</DateOfSale>
            <SalesNumber>24</SalesNumber>
            <NumberOfItemsSold>40</NumberOfItemsSold>
            <TotalRevenue>44000</TotalRevenue>
        </day>
        <day>
            <DateOfSale>19.11.2021</DateOfSale>
            <SalesNumber>18</SalesNumber>
            <NumberOfItemsSold>27</NumberOfItemsSold>
            <TotalRevenue>36000</TotalRevenue>
        </day>
    </MedSaleReport>
```

Screenshot 1 — MedSaleReport.xml in Visual Studio Code:

```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE MedSaleReport [
    <!ELEMENT MedSaleReport
(day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day)>
    <!ELEMENT day (DateOfSale,SalesNumber,NumberOfItemsSold,TotalRevenue)>
    <!ELEMENT DateOfSale (#PCDATA)>
    <!ELEMENT SalesNumber (#PCDATA)>
    <!ELEMENT NumberOfItemsSold (#PCDATA)>
    <!ELEMENT TotalRevenue (#PCDATA)>
]>
<MedSaleReport>
    <day>
        <DateOfSale>1.11.2021</DateOfSale>
        <SalesNumber>9</SalesNumber>
        <NumberOfItemsSold>35</NumberOfItemsSold>
        <TotalRevenue>6700</TotalRevenue>
    </day>
    <day>
        <DateOfSale>2.11.2021</DateOfSale>
        <SalesNumber>14</SalesNumber>
        <NumberOfItemsSold>55</NumberOfItemsSold>
        <TotalRevenue>12000</TotalRevenue>
    </day>
    <day>
        <DateOfSale>3.11.2021</DateOfSale>
        <SalesNumber>5</SalesNumber>
        <NumberOfItemsSold>18</NumberOfItemsSold>
        <TotalRevenue>2700</TotalRevenue>
    </day>
    <day>
        <DateOfSale>4.11.2021</DateOfSale>
        <SalesNumber>20</SalesNumber>
        <NumberOfItemsSold>70</NumberOfItemsSold>
```


Screenshot 2 — MedSaleReport.xml in Visual Studio:

```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<!DOCTYPE MedSaleReport [
    <!ELEMENT MedSaleReport
(day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day)>
    <!ELEMENT day (DateOfSale,SalesNumber,NumberOfItemsSold,TotalRevenue)>
    <!ELEMENT DateOfSale (#PCDATA)>
    <!ELEMENT SalesNumber (#PCDATA)>
    <!ELEMENT NumberOfItemsSold (#PCDATA)>
    <!ELEMENT TotalRevenue (#PCDATA)>
]>
<MedSaleReport>
    <day>
        <DateOfSale>1.11.2021</DateOfSale>
        <SalesNumber>9</SalesNumber>
        <NumberOfItemsSold>35</NumberOfItemsSold>
        <TotalRevenue>6700</TotalRevenue>
    </day>
    <day>
        <DateOfSale>2.11.2021</DateOfSale>
        <SalesNumber>14</SalesNumber>
        <NumberOfItemsSold>55</NumberOfItemsSold>
        <TotalRevenue>12000</TotalRevenue>
    </day>
    <day>
        <DateOfSale>3.11.2021</DateOfSale>
        <SalesNumber>5</SalesNumber>
        <NumberOfItemsSold>18</NumberOfItemsSold>
        <TotalRevenue>2700</TotalRevenue>
    </day>
    <day>
        <DateOfSale>4.11.2021</DateOfSale>
        <SalesNumber>20</SalesNumber>
        <NumberOfItemsSold>70</NumberOfItemsSold>
        <TotalRevenue>24000</TotalRevenue>
    </day>
    <day>
        <DateOfSale>5.11.2021</DateOfSale>
        <SalesNumber>15</SalesNumber>
        <NumberOfItemsSold>60</NumberOfItemsSold>
        <TotalRevenue>19000</TotalRevenue>
    </day>
```

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```xml
<MedSaleReport>
  <day>
    <DateOfSale>1.11.2021</DateOfSale>
    <SalesNumber>9</SalesNumber>
    <NumberOfItemsSold>35</NumberOfItemsSold>
    <TotalRevenue>6700</TotalRevenue>
  </day>
  <day>
    <DateOfSale>2.11.2021</DateOfSale>
    <SalesNumber>14</SalesNumber>
    <NumberOfItemsSold>55</NumberOfItemsSold>
    <TotalRevenue>12000</TotalRevenue>
  </day>
  <day>
    <DateOfSale>3.11.2021</DateOfSale>
    <SalesNumber>5</SalesNumber>
    <NumberOfItemsSold>18</NumberOfItemsSold>
    <TotalRevenue>2700</TotalRevenue>
  </day>
  <day>
    <DateOfSale>4.11.2021</DateOfSale>
    <SalesNumber>20</SalesNumber>
    <NumberOfItemsSold>70</NumberOfItemsSold>
    <TotalRevenue>24000</TotalRevenue>
  </day>
  <day>
    <DateOfSale>5.11.2021</DateOfSale>
    <SalesNumber>15</SalesNumber>
    <NumberOfItemsSold>60</NumberOfItemsSold>
    <TotalRevenue>19000</TotalRevenue>
  </day>
  <day>
    <DateOfSale>6.11.2021</DateOfSale>
    <SalesNumber>30</SalesNumber>
    <NumberOfItemsSold>150</NumberOfItemsSold>
    <TotalRevenue>43000</TotalRevenue>
  </day>
  <day>
    <DateOfSale>7.11.2021</DateOfSale>
    <SalesNumber>8</SalesNumber>
    <NumberOfItemsSold>17</NumberOfItemsSold>
    <TotalRevenue>5000</TotalRevenue>
  </day>
</MedSaleReport>
```

Validation

The files above have their own corresponding DTD, and I'm checking their validation at an online xml validator. Posted the screenshots of the results below:

MedStock.xml

XML data to validate

```
1  <?xml version = "1.0" encoding = "UTF-8"?>
2  <!DOCTYPE MedStore [
3      <!ELEMENT MedStore
4  (item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item,item)>
5      <!ELEMENT item (med_name,med_cost,med_stock,expiry_date)>
6      <!ELEMENT med_name (#PCDATA)>
7      <!ELEMENT med_cost (#PCDATA)>
8      <!ELEMENT med_stock (#PCDATA)>
9      <!ELEMENT expiry_date (#PCDATA)>
10 ]>
11 <MedStore>
12     <item>
13         <med_name>Paracetamol</med_name>
```

Validate

Document Valid

MedBilling.xml

XML data to validate

```
1  <?xml version = "1.0" encoding = "UTF-8"?>
2  <!DOCTYPE MedBilling [
3      <!ELEMENT MedBilling
4  (order,order,order,order,order,order,order,order,order,order,order,order,order,order,order,order,order,order,order)>
5      <!ELEMENT order (med_number,total_items,total_price)>
6      <!ELEMENT med_number (#PCDATA)>
7      <!ELEMENT total_items (#PCDATA)>
8      <!ELEMENT total_price (#PCDATA)>
9  ]>
10 <MedBilling>
11     <order>
12         <med_number>1</med_number>
13         <total_items>6 (Paracetamol - 3, Benadryl - 1, Adderall - 2)</total_items>
```

Validate

Document Valid

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MedSaleReport.xml

XML data to validate

```
 1  <?xml version = "1.0" encoding = "UTF-8"?>
 2  <!DOCTYPE MedSaleReport [
 3      <!ELEMENT MedSaleReport
 4  (day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day,day)>
 5      <!ELEMENT day (DateOfSale,SalesNumber,NumberOfItemsSold,TotalRevenue)>
 6      <!ELEMENT DateOfSale (#PCDATA)>
 7      <!ELEMENT SalesNumber (#PCDATA)>
 8      <!ELEMENT NumberOfItemsSold (#PCDATA)>
 9      <!ELEMENT TotalRevenue (#PCDATA)>
10  ]>
11  <MedSaleReport>
12      <day>
13          <DateOfSale>1.11.2021</DateOfSale>
```

Validate

Document Valid