SKILL ASSURE
LINQ TO XML LABS

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For the Linq to XML Labs consider the following XML document.

Add an empty XML document into your .net project and copy the below xml into the file

```xml
<?xml version="1.0" encoding="utf-8" ?>
<Employees>
 <Employee>
    <EmpId>1</EmpId>
    <Name>Sam</Name>
    <Sex>Male</Sex>
    <Phone Type="Home">423-555-0124</Phone>
    <Phone Type="Work">424-555-0545</Phone>
   <Address>
       <Street>7A Cox Street</Street>
       <City>Acampo</City>
       <State>CA</State>
       <Zip>95220</Zip>
       <Country>USA</Country>
    </Address>
 </Employee>
 <Employee>
    <EmpId>2</EmpId>
    <Name>Lucy</Name>
    <Sex>Female</Sex>
    <Phone Type="Home">143-555-0763</Phone>
    <Phone Type="Work">434-555-0567</Phone>
    <Address>
       <Street>Jess Bay</Street>
       <City>Alta</City>
       <State>CA</State>
       <Zip>95701</Zip>
       <Country>USA</Country>
    </Address>
 </Employee>
 <Employee>
    <EmpId>3</EmpId>
    <Name>Kate</Name>
    <Sex>Female</Sex>
    <Phone Type="Home">166-555-0231</Phone>
    <Phone Type="Work">233-555-0442</Phone>
    <Address>
       <Street>23 Boxen Street</Street>
       <City>Milford</City>
       <State>CA</State>
       <Zip>96121</Zip>
       <Country>USA</Country>
    </Address>
 </Employee>
 <Employee>
    <EmpId>4</EmpId>
    <Name>Chris</Name>
    <Sex>Male</Sex>
    <Phone Type="Home">564-555-0122</Phone>
    <Phone Type="Work">442-555-0154</Phone>
    <Address>
```
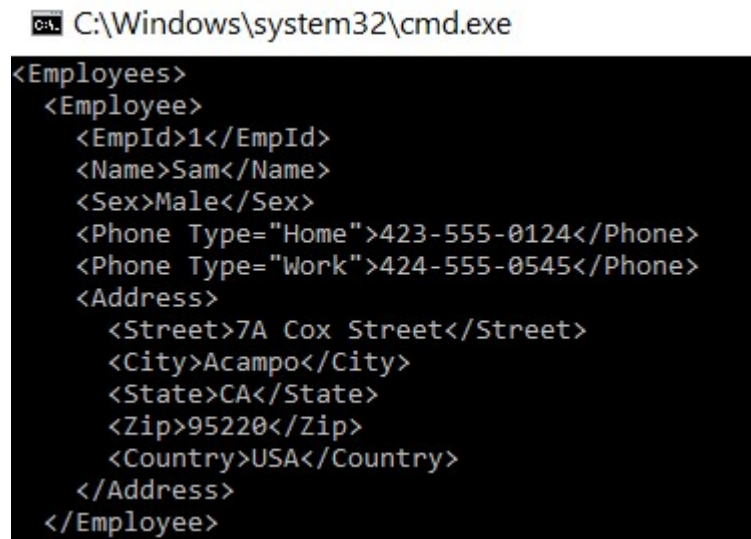
```xml
        <Street>124 Kutbay</Street>
        <City>Montara</City>
        <State>CA</State>
        <Zip>94037</Zip>
        <Country>USA</Country>
     </Address>
  </Employee>
</Employees>
```

Lab 1:

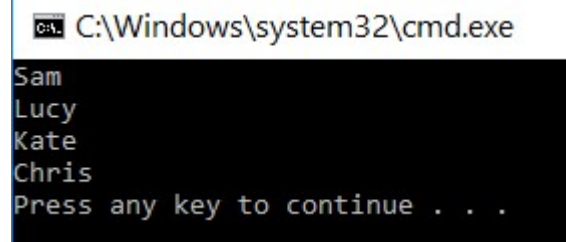Load the entire XML document and display the xml content on to the screen

Expected Output

Lab 2:

Show only the name of all Employees

Expected Output

Lab 3:

Show the Employee name and ID of all the employees

Skill Assure – Linq to XML Labs

Expected Output

```
1, Sam
2, Lucy
3, Kate
4, Chris
Press any key to continue . . .
```

Lab 4:

List the names of all female employees only

Expected Output

```
2, Lucy
3, Kate
Press any key to continue . . .
```

Lab 5:

List all the Home Phone numbers

Expected Output

```
423-555-0124
143-555-0763
166-555-0231
564-555-0122
Press any key to continue . . .
```

Lab 6:

List all the employee names living in 'Alta' city

Expected Output

```
Lucy
Press any key to continue . . .
```

Lab 7:

List and sort all the Zip codes

Expected Output

```
<Employee>
  <EmpId>4</EmpId>
  <Name>Chris</Name>
  <Sex>Male</Sex>
  <Phone Type="Home">564-555-0122</Phone>
  <Phone Type="Work">442-555-0154</Phone>
  <Address>
    <Street>124 Kutbay</Street>
    <City>Montara</City>
    <State>CA</State>
    <Zip>94037</Zip>
    <Country>USA</Country>
  </Address>
</Employee>
<Employee>
  <EmpId>1</EmpId>
  <Name>Sam</Name>
  <Sex>Male</Sex>
  <Phone Type="Home">423-555-0124</Phone>
  <Phone Type="Work">424-555-0545</Phone>
  <Address>
    <Street>7A Cox Street</Street>
    <City>Acampo</City>
    <State>CA</State>
    <Zip>95220</Zip>
    <Country>USA</Country>
  </Address>
</Employee>
<Employee>
  <EmpId>2</EmpId>
  <Name>Lucy</Name>
  <Sex>Female</Sex>
  <Phone Type="Home">143-555-0763</Phone>
  <Phone Type="Work">434-555-0567</Phone>
  <Address>
    <Street>Jess Bay</Street>
    <City>Alta</City>
```

Lab 8:

List the details of first 2 employees

Expected Output

```
<Employee>
  <EmpId>1</EmpId>
  <Name>Sam</Name>
  <Sex>Male</Sex>
  <Phone Type="Home">423-555-0124</Phone>
  <Phone Type="Work">424-555-0545</Phone>
  <Address>
    <Street>7A Cox Street</Street>
    <City>Acampo</City>
    <State>CA</State>
    <Zip>95220</Zip>
    <Country>USA</Country>
  </Address>
</Employee>
<Employee>
  <EmpId>2</EmpId>
  <Name>Lucy</Name>
  <Sex>Female</Sex>
  <Phone Type="Home">143-555-0763</Phone>
  <Phone Type="Work">434-555-0567</Phone>
  <Address>
    <Street>Jess Bay</Street>
    <City>Alta</City>
    <State>CA</State>
    <Zip>95701</Zip>
    <Country>USA</Country>
  </Address>
</Employee>
Press any key to continue . . .
```

Lab 9:

Count the number of employees living in the state 'CA'

Expected Output

```
Employees in CA : 4
Press any key to continue . . .
```

Lab 10:

List all female employee names and city only

Expected Output

```
Name:Lucy, City:Alta, Gender:Female
Name:Kate, City:Milford, Gender:Female
Press any key to continue . . .
```