Problem Statement:

Create an XML document that contains 10 users information. Write a java program, which takes user id as input and returns user details by taking the user information by using xml document by using DOM Parser.

```
File name: dom.java
Source Code:
import javax.xml.parsers.*;
import org.w3c.dom.*;
import java.io.*;
import java.util.*;
class dom
       public static void main(String args[])
               try
               {
                       Scanner sc=new Scanner(System.in);
                       System.out.print("Enter userid: ");
                       String userid=sc.next();
                       DocumentBuilderFactory
dbFactory=DocumentBuilderFactory.newInstance();
                       DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();
                       Document doc = dBuilder.parse("users.xml");
                       Element root = doc.getDocumentElement();
                       NodeList children=root.getChildNodes();
                       for (int i=0;i<children.getLength();i++)
                               Node node=children.item(i);
                               if(node.getNodeType()==Node.ELEMENT_NODE)
                                       Element element = (Element) node;
                                       String id = element.getAttribute("userid");
                                      if(id.equals(userid))
                                              String name =
element.getElementsByTagName("name").item(0).getTextContent();
                                              String age =
element.getElementsByTagName("age").item(0).getTextContent();
                                              String address =
element.getElementsByTagName("address").item(0).getTextContent();
                                              String email =
element.getElementsByTagName("email").item(0).getTextContent();
                                              System.out.println("User ID: " + id);
                                              System.out.println("Name : " + name);
                                              System.out.println("Age: " + age);
                                              System.out.println("Address: " + address);
                                              System.out.println("Email : " + email);
                                       }
                               }
               catch (Exception e)
```

```
e.printStackTrace();
File name: users.xml
Source Code:
<?xml version="1.0"?>
<users>
       <user userid = "501">
              <name>Satwika</name>
              <age>25</age>
              <address>Nizamabad</address>
              <email>sat@gmail.com</email>
       </user>
       <user userid="502">
              <name>Chaithanya</name>
              <age>20</age>
              <address>Hyderabad</address>
              <email>chaithu@gmail.com</email>
       </user>
       <user userid="503">
              <name>Manoj</name>
              <age>25</age>
              <address>Sathupalli</address>
              <email>manoj@gmail.com</email>
       </user>
       <user userid="504">
              <name>Adam</name>
              <age>25</age>
              <address>NagarKurnool</address>
              <email>adam@gmail.com</email>
       </user>
       <user userid="505">
              <name>Lakshman</name>
              <age>37</age>
              <address>kammareddy</address>
              <email>lucky@gmail.com</email>
       </user>
       <user userid="506">
              <name>Vishnu</name>
              <age>29</age>
              <address>L.B.Nagar</address>
              <email>vishnu@gmail.com</email>
       </user>
       <user userid="507">
              <name>akhila</name>
              <age>21</age>
              <address>hyderabad</address>
              <email>akhila@gmail.com</email>
       </user>
       <user userid="508">
              <name>Rana</name>
              <age>24</age>
```

```
<address>Kurnool</address>
               <email>rana08@gmail.com</email>
       </user>
       <user userid="509">
               <name>Ganesh</name>
              <age>33</age>
               <address>Sathupalli</address>
               <email>gani4@gmail.com</email>
       </user>
       <user userid="510">
               <name>Chris</name>
               <age>27</age>
               <address>karimnagar</address>
               <email>chris@gmail.com</email>
       </user>
</users>
OUTPUT:
Microsoft Windows [Version 10.0.17763.864]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\ADMIN>cd/
C:\>cd C:\xampp\htdocs\le507
C:\xampp\htdocs\le507>javac dom.java
C:\xampp\htdocs\le507>java dom
Enter userid : 507
User ID : 507
```

Name : akhila

Address : hyderabad Email : akhila@gmail.com C:\xampp\htdocs\le507> **Problem Statement:** Create an XML document that contains 10 users information. Write a java program, which takes user id as input and returns user details by taking the user information by using xml document by using SAX Parser

Program:

```
File name: SaxParser.java
Source Code:
import java.io.*;
import javax.xml.parsers.SAXParser;
import javax.xml.parsers.SAXParserFactory;
import org.xml.sax.Attributes;
import org.xml.sax.SAXException;
import org.xml.sax.helpers.DefaultHandler;
public class SaxParser extends DefaultHandler
boolean studentid = true,name = false,address = false,gender = false;
int flag=0,c=0;
String sid, sname, sadd, sgender, tid;
public void startDocument(){
System.out.println("begin parsing document");
System.out.print("Enter student ID: ");
BufferedReader reader = new BufferedReader(new InputStreamReader(System.in));
tid = reader.readLine();
}catch(Exception e){}
public void startElement(String url, String localname, String qName, Attributes att){
if (qName.equalsIgnoreCase("studentid")){
studentid = true;
}
else if (qName.equalsIgnoreCase("name") && flag==1){
name = true;
else if (qName.equalsIgnoreCase("address")&& flag==1){
address = true;
else if (qName.equalsIgnoreCase("gender")&& flag==1){
gender = true;
public void characters(char[] ch,int start,int length){
if (studentid)
String x=new String(ch, start, length);
if(x.equals(tid)){
flag=1;sid=x; c=1;
}
else
flag=0;
studentid = false;
else if (name){
sname=new String(ch, start, length); name = false;
```

```
else if (address){
sadd=new String(ch, start, length); address = false;
else if (gender){
sgender=new String(ch, start, length); gender = false;
}
public void endElement(String url,String localname, String qName){}
public void endDocument()
if(c==0)
System.out.println("student Id is not present.Try Again!!!");
else
System.out.println("\n\n STUDENT-DETAILS");
System.out.println("=======
System.out.println("student id :\t" +sid);
System.out.println("student Name :\t" +sname);
System.out.println("Address:\t"+sadd);
System.out.println("Gender:\t"+sgender);
public static void main(String[] arg)throws Exception{
SAXParser p=SAXParserFactory.newInstance().newSAXParser();
p.parse(new FileInputStream("student.xml"), new SaxParser());
}
File name: student.xml
Source Code:
<?xml version="1.0" encoding="UTF-8"?>
<students-details>
<student>
       <studentid>101</studentid>
       <name>Mounika</name>
       <address>Sathupalli</address>
       <gender>Female</gender>
</student>
<student>
       <studentid>102</studentid>
       <name>Suman</name>
       <address>Hyderabad</address>
       <gender>Male</gender>
</student>
<student>
       <studentid>103</studentid>
       <name>varsha</name>
       <address>warangal</address>
       <gender>Female</gender>
</student>
<student>
       <studentid>104</studentid>
       <name>Sri Vidya</name>
       <address>Khammam</address>
       <gender>Female</gender>
```

```
</student>
<student>
      <studentid>105</studentid>
      <name>venkat</name>
      <address>Jorgan</address>
       <gender>Male</gender>
</student>
<student>
      <studentid>106</studentid>
      <name>Akhil</name>
      <address>Recharla</address>
      <gender>Male</gender>
</student>
<student>
      <studentid>107</studentid>
      <name>Harshitha</name>
      <address>Ramanthapur</address>
      <gender>Female</gender>
</student>
<student>
      <studentid>108</studentid>
      <name>mohan</name>
      <address>Nizambad</address>
      <gender>Male</gender>
</student>
<student>
      <studentid>109</studentid>
      <name>Sahara</name>
      <address>Paris</address>
      <gender>Female</gender>
</student>
<student>
      <studentid>110</studentid>
      <name>Sandeep</name>
      <address>Kolkata</address>
       <gender>Male</gender>
</student>
</students-details>
Output:
C:\xampp\htdocs\le507>javac sax.java
C:\xampp\htdocs\le507>java sax
begin parsing document
Enter student ID: 507
 STUDENT-DETAILS
_____
student id :
                 507
student Name : Harshitha
Address :
                Ramanthapur
C:\xampp\htdocs\le507>
```