Program 1:

Write a Document type definition (DTD) document for representing the structure of employee information

Emps1.dtd:

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT emps (emp+,dept)>
<!ELEMENT emp (name,salary,desig)>
<!ELEMENT name (firstname,lastname)>
<!ELEMENT firstname (#PCDATA)>
<!ELEMENT lastname (#PCDATA)>
<!ELEMENT salary (#PCDATA)>
<!ELEMENT desig (#PCDATA)>
<!ELEMENT dept (deptname,desc)>
<!ELEMENT deptname (#PCDATA)>
<!ELEMENT deptname (#PCDATA)>
<!ELEMENT deptname (#PCDATA)>
<!ELEMENT desc (#PCDATA)>
<!ELEMENT desc (#PCDATA)>
<!ATTLIST emp empno ID #REQUIRED>
<!ATTLIST emp working (yes | no) 'yes'>
<!ATTLIST dept deptno ID #REQUIRED>
```

Employee1.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE emps SYSTEM "emps1.dtd">
<emps>
    <emp empno="e201" working="yes">
         <name>
              <firstname>sai</firstname>
              <lastname>ram
         </name>
         <salary>5000</salary>
         <desig>pm</desig>
    <emp empno="e202" mgrid="e201" working="yes">
         <name>
              <firstname>satish</firstname>
              <lastname>kumar
         </name>
         <salary>2000</salary>
         <desig>programmer</desig>
    </emp>
    <dept deptno="d111">
         <deptname>developing team</deptname>
         <desc>develops programs</desc>
    </dept>
</emps>
```