**Program 1(DTD):**

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 desc (#PCDATA)>

<!ATTLIST emp empno ID #REQUIRED>

<!ATTLIST emp mgrid IDREF #IMPLIED>

<!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</lastname>

</name>

<salary>5000</salary>

<desig>pm</desig>

</emp>

<emp empno="e202" mgrid="e201" working="yes">

<name>

<firstname>satish</firstname>

<lastname>kumar</lastname>

</name>

<salary>2000</salary>

<desig>programmer</desig>

</emp>

<dept deptno="d111">

<deptname>developing team</deptname>

<desc>develops programs</desc>

</dept>

</emps>