EXPERIMENT 10:-

#Titles- Create a DTD to describe a bank that has one or more customers, account or employee.

(i) Each customer has a customerId, name and address

(ii) Each account has an accountId, branchId, customerId, Account type and balance.

(iii) Each employee has a empId, name, designation, DOJ, salary and address.

#Theory:- XML DTD stands for document Type definition. It's basically a set of rules that define how an XML document should be structured.

#code:-

```
<!ELEMENT bank (customer +, account *,
    employee + )>
<!ELEMENT customer (customerId, name,
            address )>
<!ELEMENT customerId (#PCDATA)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT address (#PCDATA)>

<!ELEMENT account (accountId, branchId,
            customerId, accountType, balance )>
<!ELEMENT accountId (#PCDATA)>
<!ELEMENT branchId (#PCDATA)>
<!ELEMENT customerId (#PCDATA)>
<!ELEMENT accountType (#PCDATA)>
<!ELEMENT balance (#PCDATA)>

<!ELEMENT employee (empId, name, designa-
        -tion, doj, salary, address )>
<!ELEMENT empId (#PCDATA)>
```

"98765"> 98765 </ISL

```
<!ELEMENT nome (#PCDATA)>
<!ELEMENT dddress (#PCDATA)>
<!ELEMENT designation (#PCDATA)>
<!ELEMENT doJ (#PCDATA)>
<!ELEMENT salong (#PCDATA)>
<!ELEMENT dddress (#PCDATA)>
```

Output :-
Valid XML

conclusions-
In this experiment, we created a DID to describe the structure of books data and valid sucessfully.

```
<author> Laxmiprasad"s Sagarmatha </
                publish>
</book>
<book>
    <isbn no= "172233"> 112233 </libs>
</book>
</books>
```

 # output :-

Valid xml

 # CONCLUSION

In this experiment, we created a DTD to describe the structure of books, including elements like title, ISBN, Zipcode, author, and publish with specific occurance constraints and attributes.

EXPERIMENT-11:-

#Title:- creating a DTD for corresponding XML for Books.

#Theory:- XML DTD stands for document type definition. It's basically a set of rules that define how an XML document should br structured.

Codes-

```
<!ELEMENT books (book+)>
<!ELEMENT book(title?, isbn+, (zipcode.|
   author?, published)>
<!ELEMENT title nome CDATA #IMPLIED>
<!ELEMENT isbn .. (#PCDATA)>
<!ATTLIST isbn no c. TA #REQUIRED>
<!ELEMENT zipcode (#PCDATA)>
<!ATTLIST zipcode zname CDATD "0123456
                               789">
<!ELEMENT author (#PCDATA)>
<!ELEMENT publish (#PCDATA)>
<!ATTLIST publish year CDATD #FIXED
            "1995")>
```

books.XMl

```
<?XMl version "1.0" encoding = "UFT-8'2>
<! DOCTYPE books SYSTEM "books.dtd">
<books>
   <book>
      <title nome =" XML">Learning xML</title>
      <isbn no="1234567890">1234567890</isbn>
      <zipcode zname ="123456">123456</zipcode>
      <publish year="995"> peorson</publish>
   </books>
   <book>
      <title> MUNA MADAN </title>
      <isbn no="98765">98765 </isbn>
```