

C. Implement Cursor in PL/SQL.

1. Create table teacher with attributes tid, name, specialization, experience and address.

```
create table teacher(tid number, name
varchar(20), specialization varchar(20),
experience number, address varchar(20))
```

Table created.

2. Insert 4 records in the table teacher.

```
insert into teacher
values(1,'abc','IoT',6,'Sangli')
insert into teacher
values(2,'def','CC',4,'Kolhapur')
insert into teacher
values(3,'ghi','Data',8,'Sangli')
insert into teacher
values(4,'jkl','Web',3,'Kolhapur')
```

| TID | NAME | SPECIALIZATION | EXPERIENCE | ADDRESS |
|-----|------|----------------|------------|----------|
| 1 | abc | IoT | 6 | Sangli |
| 2 | def | CC | 4 | Kolhapur |
| 3 | ghi | Data | 8 | Sangli |
| 4 | jkl | Web | 3 | Kolhapur |

3. Create a cursor to print all the values from teacher table.

```
declare
id teacher.tid%type;
tname teacher.name%type;
tspec teacher.specialization%type;
texp teacher.experience%type;
taddr teacher.address%type;
cursor teach is select tid, name,
specialization, experience, address from
teacher;
```

```
begin
open teach;
loop
fetch teach into id, tname, tspec, texp,
taddr;
exit when teach%notfound;
dbms_output.put_line(id || tname || tspec ||
texp || taddr);
```

```
end loop;
close teach;
end;
Statement processed.
1 abc IoT 6 Sangli
2 def CC 4 Kolhapur
3 ghi Data 8 Sangli
4 jkl Web 3 Kolhapur
```

4. Display information of all the teachers who are staying in Kolhapur.

```
declare
id teacher.tid%type;
tname teacher.name%type;
tspec teacher.specialization%type;
texp teacher.experience%type;
taddr teacher.address%type;
cursor kol is select tid, name,
specialization, experience, address from
teacher where address= 'kolhapur' ;
```

```
begin
open kol;
loop
fetch kol into id, tname, tspec, texp, taddr;
exit when kol%notfound;
dbms_output.put_line(id || ' ' || tname || ' ' ||
tspec || ' ' || ' ' || texp || ' ' || taddr);
end loop;
close kol;
end;
Statement processed.
2 def CC 4 Kolhapur
4 jkl Web 3 Kolhapur
```

5. Display information of all the teachers whose experience is more than 5 years.

```
declare
id teacher.tid%type;
tname teacher.name%type;
tspec teacher.specialization%type;
texp teacher.experience%type;
taddr teacher.address%type;
```

```
cursor exp is select tid, name,  
specialization, experience, address from  
teacher where experience>5 ;
```

```
begin  
open exp;  
loop  
fetch exp into id, tname, tspec, texp, taddr;  
exit when exp%notfound;  
dbms_output.put_line(id || ' ' || tname || ' ' ||  
tspec || ' ' || ' ' || texp || ' ' || taddr);  
end loop;  
close exp;  
end;
```

```
Statement processed.  
1 abc IoT 6 Sangli  
3 ghi Data 8 Sangli
```