

Final Assignment (Lab 6)

1. Consider the following code:

```
DECLARE
  a number;
  b number;
  c number;
BEGIN
  a:= 23;
  b:= 45;
  findMin(a, b, c);
  dbms_output.put_line(' Minimum of (23, 45) : ' || c);
END;
```

Write the following procedure:

Solution:

```
CREATE OR PROCEDURE findMin(x IN number, y IN number, z OUT
number) IS
BEGIN
  If ( x < y ) then
    z := x;
  else
    z := y;
  end if;
end;
```

2. Consider the following code:

```
DECLARE
  a number;
BEGIN
  a:= 23;
  squareNum(a, b);
  dbms_output.put_line(' Square of (23): ' || b);
END;
```

Write the procedure squareNum.

```
Solution: Create or replace squareNum (x IN OUT NUMBER)
IS
Begin
  x := x * x;
End;
```

```
CREATE TABLE DBUSER (  
  USER_ID          NUMBER (5) NOT NULL,  
  USERNAME         VARCHAR2 (20) NOT NULL,  
  AGE              NUMBER(3) NOT NULL,  
  STATE            VARCHAR2(20),  
  PRIMARY KEY ( USER_ID )  
)
```

Write the following procedures:

3. Add a new user:

```
CREATE OR REPLACE PROCEDURE add_DBUSER(p_userid IN  
DBUSER.USER_ID%TYPE, p_username IN DBUSER.USERNAME%TYPE,  
p_age IN DBUSER.AGE%TYPE, p_state IN DBUSER.STATE%TYPE)
```

4. Delete an existing user:

```
CREATE OR REPLACE PROCEDURE delete_DBUSER(p_userid IN  
DBUSER.USER_ID%TYPE)
```

5. Search for a username based on user id: (Hint: Use
Implicit Cursor)

```
CREATE OR REPLACE PROCEDURE search_DBUSER(p_userid IN  
DBUSER.USER_ID%TYPE)
```

6. List usernames based on a given state: (Hint: Use
Explicit Cursor)

```
CREATE OR REPLACE PROCEDURE list_DBUSERS(p_userid IN  
DBUSER.USERID%TYPE, p_state IN DBUSER.STATE%TYPE)
```