```
-- CREATE TABLE CUSTOMERS(
-- ID INT NOT NULL,
-- NAME VARCHAR (20) NOT NULL,
-- AGE INT NOT NULL,
-- ADDRESS CHAR (25),
-- SALARY DECIMAL (18, 2),
-- PRIMARY KEY (ID)
-- );
-- INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
-- VALUES (1, 'harsh', 19, 'nagar', 2000.00 );
-- INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
-- VALUES (2, 'akash', 19, 'Delhi', 1500.00 );
-- INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
-- VALUES (3, 'kaustubh', 19, 'gujarat', 2000.00 );
-- INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
-- VALUES (4, 'john', 19, 'mumbai', 6500.00 );
-- INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
-- VALUES (5, 'ashish', 19, 'pune', 8500.00 );
-- INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)
-- VALUES (6, 'onasvee', 19, 'nagpur', 4500.00 );
-- select * from CUSTOMERS;
-- CREATE TABLE cust_visitno(
-- visitno INT NOT NULL
-- );
-- INSERT INTO cust_visitno VALUES (1);
-- INSERT INTO cust_visitno VALUES (2);
```

```
-- INSERT INTO cust_visitno VALUES (1);
-- INSERT INTO cust_visitno VALUES (5);
-- INSERT INTO cust_visitno VALUES (3);
-- INSERT INTO cust visitno VALUES (2);
--Implicit Cursors
DECLARE
 total_rows number(2);
BEGIN
 UPDATE customers
 SET salary = salary + 500;
 IF sql%notfound THEN
   dbms_output.put_line('no customers selected');
 ELSIF sql%found THEN
   total_rows := sql%rowcount;
   dbms_output.put_line( total_rows || ' customers selected ');
 END IF;
END;
-- Explicit Cursors
DECLARE
 c_id customers.id%type;
 c_name customers.name%type;
 c_addr customers.address%type;
 CURSOR c_customers is
   SELECT id, name, address FROM customers;
BEGIN
 OPEN c_customers;
 LOOP
 FETCH c_customers into c_id, c_name, c_addr;
    EXIT WHEN c_customers%notfound;
    dbms_output.put_line(c_id || ' ' || c_name || ' ' || c_addr);
 END LOOP;
 CLOSE c_customers;
```

```
END;
-- Parameterized cursor
DECLARE
 c_id customers.id%type;
 c_name customers.name%type;
 c_salary customers.salary%type;
 CURSOR c_customers (in_id IN number) is
   SELECT id, name, salary FROM customers where id>in_id;
BEGIN
 OPEN c_customers(1);
 LOOP
 FETCH c_customers into c_id, c_name, c_salary;
   EXIT WHEN c_customers%notfound;
   dbms_output.put_line(c_id || ' ' || c_name || ' ' || c_salary);
 END LOOP;
 CLOSE c_customers;
END;
/
-- multi cursor
DECLARE
 c_name customers.name%type;
 c_visit cust_visitno.visitno%type;
 CURSOR c_customers is
   SELECT name FROM customers;
  CURSOR c_visits is
   SELECT visitno FROM cust_visitno;
BEGIN
 OPEN c_customers;
 OPEN c_visits;
```

```
LOOP
 FETCH c_customers into c_name;
 FETCH c_visits into c_visit;
   EXIT WHEN c_customers%notfound or c_visits%notfound;
   dbms_output.put_line(''|| c_name || ''||c_visit);
 END LOOP;
 CLOSE c_customers;
 CLOSE c_visits;
END;
/
Statement processed.
6 customers selected
Statement processed.
1 harsh nagar
2 akash Delhi
3 kaustubh gujarat
4 john mumbai
5 ashish pune
6 onasvee nagpur
Statement processed.
2 akash 5500
3 kaustubh 6000
4 john 10500
5 ashish 12500
6 onasvee 8500
Statement processed.
harsh 1
akash 2
kaustubh 1
john 5
ashish 3
onasvee 2
```