Program No:	7
Roll No:	1525
Title of Program:	
Objective:	BATCH 1_IMPLEMENTATION OF ORDBMS USING ADT,OBJECT
	TABLE,REFERENCE AND DREF

```
Source code:
create type type_name13 As object
  fname varchar(20),
  mname varchar(20),
  lname varchar(20)
);
/
create type type_address13 As object
  street varchar(20),
  city varchar(20),
  pincode number(20)
);
CREATE TABLE table_customer013 (
  c_id NUMBER(5) PRIMARY KEY,
  c_name type_name13,
  c_add type_address13,
  c phno NUMBER(10)
);
```

```
INSERT INTO table customer013
VALUES (
  1,
  type name13('james', 'D', 'Bond'),
  type address13('andheri', 'mumbai', 'maharashtra', '400061'),
  123798
);
INSERT INTO table customer013
VALUES (
  2,
  type name13('Thomas', 'Elva', 'Edison'),
  type address13('Kalyan', 'Thane', 'Maharashtra', '400071'),
  123798
);
INSERT INTO table customer013
VALUES (
  3,
  type name13('omkar', 'D', 'Edison'),
  type address13('Goa', 'Goa', 'Maharashtra', '400071'),
  563798
);
select * from table customer013;
select c.c add.street from table customer013 c where c id=1;
select c.c name.fname from table customer013 c where c id=1;
select c id,c.c name.lname from table customer013 c;
select c.c name.fname||' ' ||c.c name.mname||' '||c.cname.lname from
```

## table\_customer013 c;

## **OUTPUT**:

Program No:	
Roll No:	1525
Title of Program:	
_	
Objective :	BATCH 1_IMPLEMENTATION OF ORDBMS USING ADT,OBJECT
	TABLE,REFERENCE AND DREF

```
SOURCE CODE:
CREATE TYPE ANIMAL TY12 AS OBJECT (
  Breed VARCHAR2(25),
  Name VARCHAR2(25),
  BirthDate DATE
);
CREATE TABLE animal OF ANIMAL TY12;
INSERT INTO animal VALUES ('Mule', 'Frances', TO DATE('01-APR-2024', 'DD-MON-YYYY'));
INSERT INTO animal VALUES ('germna shepherd', 'dog', TO DATE('11-JUN-2024', 'DD-MON-
YYYY'));
INSERT INTO animal VALUES ('Bulldog', 'BRUNO', TO DATE('02-JUL-2024', 'DD-MON-
YYYY'));
INSERT INTO animal VALUES ('rabbit', 'Gharbosh', TO_DATE('03-AUG-2002', 'DD-MON-
YYYY'));
//reference
SELECT REF(A) FROM animal A;
SELECT DEREF(REF(A)) FROM animal A;
```

create table KEEPER12

REF ANIMAL\_TY12);

(KeeperName varchar2(25), AnimalKept

insert into KEEPER12 select 'CATHERINE', REF(A) from animal A where Name="Frances";

describe keeper12

INSERT INTO KEEPER12 SELECT 'CATHERINE', REF(A) FROM animal A WHERE Name = 'Frances';

## **OUTPUT**:

```
Table created.
SQL> select * from animal;
BREED
                          NAME
                                                     BIRTHDATE
Mule
                          Frances
                                                     01-APR-24
germna shepherd
                                                     11-JUN-24
                          dog
Bulldog
                          BRUNO
                                                     02-JUL-24
rabbit
                          Gharbosh
                                                     03-AUG-02
SQL> drop table KEEPER12;
Table dropped.
SQL> CREATE TABLE KEEPER12 (
         KeeperName VARCHAR2(25),
  2
         AnimalKept REF ANIMAL_TY12
 3
 4 );
Table created.
SQL> INSERT INTO KEEPER12
 2 SELECT 'CATHERINE', REF(A)
 3 FROM animal A
 4 WHERE Name = 'Frances';
1 row created.
SQL>
```

SQL> select * from keeper12;		
KEEPERNAME		
ANIMALKEPT		
CATHERINE 000022020891FBB7C050B54A0B89F159F14BE0DB5E4C9A47789A404F5D8FD7B87570B50058		