**Q.6. Create type solid\_type with attributes length, width, height and 2 member functions surface and volume that returns the surface area and volume of the shape respectively. Create table solid of solid\_type, insert records into it and display surface and volume of the solid.**

**SQL Query:**

CREATE TYPE solid\_type AS object(

length FLOAT,

width FLOAT,

height FLOAT

);

CREATE TABLE solid (

dimensions solid\_type

);

INSERT INTO solid VALUES (solid\_type(10, 5, 3));

INSERT INTO solid VALUES (solid\_type(8, 6, 4));

INSERT INTO solid VALUES (solid\_type(12, 7, 2));

SELECT

s.dimensions.length,s.dimensions.width,s.dimensions.height,

(2 \* (s.dimensions.length \* s.dimensions.width + s.dimensions.width \* s.dimensions.height + s.dimensions.height \* s.dimensions.length)) AS surface\_area,

(s.dimensions.length \* s.dimensions.width \* s.dimensions.height) AS volume

FROM

solid s;

