**Scenario 1:**

Task 1





Sequence output:



Task 2



Task 3







Task 4



scenerio 2:

table1:

CREATE TABLE HIGHSCHOOLER

(ID INTEGER, NAME VARCHAR2(20), GRADE INTEGER);

table2:

CREATE TABLE FRIEND

(ID1 INTEGER, ID2 INTEGER);

table3:

CREATE TABLE LIKES

(ID1 INTEGER, ID2 INTEGER);

Task1:

CREATE OR REPLACE TRIGGER tr1

AFTER INSERT ON FRIEND

FOR EACH ROW

BEGIN

INSERT INTO FRIEND VALUES (:NEW.ID2, :NEW.ID1);

END;

CREATE TRIGGER tr2

AFTER DELETE ON FRIEND

FOR EACH ROW

BEGIN

DELETE FROM FRIEND

WHERE ID1=:OLD.ID2 AND ID2=:OLD.ID1;

END;

Task2:

CREATE OR REPLACE TRIGGER SCENE003

AFTER UPDATE ON HIGHSCHOOLER

FOR EACH ROW

BEGIN

IF :NEW.GRADE>12 THEN

DELETE FROM HIGHSCHOOLER

WHERE ID=:NEW.ID;

END IF;

END;

CREATE OR REPLACE TRIGGER SCENE004

AFTER UPDATE ON HIGHSCHOOLER

FOR EACH ROW

BEGIN

IF :NEW.GRADE=:OLD.GRADE+1 THEN

UPDATE HIGHSCHOOLER SET GRADE=GRADE+1

WHERE ID IN (SELECT ID2 FROM FRIENDFYK WHERE ID1=:NEW.ID);

END IF;

END;