Aim:

TRIGGER

- To understand Trigger
- Implement Trigger

Prerequisite: Oracle, SQL

Outcome: Students will be able to create trigger for a desired event.

Theory:

Stored Program which are automatically fired or executed when some event occur such as DML or DDL or DB operation.

Syntax:

Create or Replace Trigger trigger-namge

Before | After | Instead of Insert | update | Delete

Of colName

On tableName

Referencing old as O new as N

For each row

When (condition)

Declare

Begin

Exception

End;

Example:

Create or Replace Trigger display salary change

Before Insert or update or Delete

On tableName

Referencing old as new as

For each row

When (new.id>0)

Declare

salary difference number;

Begin

salary difference:= :new.salary - :old.salary;

dbms_output.put_line('salary difference is: ' || salary_difference)

End;				
Practice Exercise				
1	Create following tables			
	student(id number,name varchar2(25),programme varchar2(25))			
2	Insert following data in student table:			
	Id	name programme		
	1	rohan	diploma	
	2	anu	MA	
	3	robert	diploma	
	4	tom	btech	
	5	sunny	diploma	
3	Create a trigger which fires for every update done on programme attribute and print the old and new value of program.			

Instructions:

- 1. Write and execute the query in Oracle SQL server/ SQL* Plus.
- 2. Paste the snapshot of the output in input & output section.

Part B

Code and Output:

1.

create table student(id number.name varchar2(25),programme varchar2(25));

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

2.

```
insert into student values (1, 'rohan', 'diploma');
 insert into student values (2,'anu','MA');
 insert into student values (3,'robert','diploma');
 insert into student values (4,'tom','btech');
 insert into student values (5, 'sunny', 'diploma');
 commit;
 end;
 Results Explain Describe Saved SQL History
Statement processed.
0.01 seconds
3.
 create or replace trigger update programme
 after update
 on student
 for each row
 when(new.id>0)
 declare
 begin
 dbms_output.put_line('Old value is '||:old.programme||' and New value is '||:new.programme);
 end;
 Results Explain Describe Saved SQL History
Trigger created.
0.02 seconds
```

update student set programme='architecture' where id=3;

ROLL NO: 1913105P1 V SATYA SIVA LALITHA GAYATHRI BODA

CSE 4

update student set programme='architecture' where id=3;

Results Explain Describe Saved SQL History

Old value is diploma and New value is architecture

1 row(s) updated.

0.00 seconds

Observation & Learning:

Understood the use of triggers and implemented pl/sql triggers.

Conclusion:

Learned and executed pl/sql triggers.