EXPERIMENT 5

5. i. AIM: Create a simple PL/SQL program which includes declaration section, executable section and exception - Handling section (Ex. Student marks can be selected from the table and printed for those the table exception can be raised if no records were found).

PL/SQL is block structured language divided into three logical blocks.

BEGIN block and END; keyword are compulsory, and other two block DECLARE and EXCEPTION are optional block. END is not a block only keyword to end of PL/SQL program.


```
SQL> select *from student;

    SID SNAME              RANK
---------- -------------------- ----------
    501 Ravi           second
    502 Raju           third
    503 Ramu           first
SQL> set serveroutput on;
SQL> declare
 2  temp1 number(10);
 3  temp2 varchar2(10);
 4
 5  begin
 6  select sid,sname into temp1,temp2 from student where rank='first';
 7  dbms_output.put_line('Student No:'|| temp1 ||' Name:'||temp2||' got first
 8  rank');
 9  exception
 10  when no_data_found then
 11  dbms_output.put_line('******************************************');
```

12 dbms_output.put_line('# Error: there is no student got first rank');

13 end;

14 /

Student No:503 Name:Ramu got first

rank

PL/SQL procedure successfully completed.

ii. **AIM:** Insert data into student table and use COMMIT, ROLLBACK and SAVEPOINT in PL/SQL block.

SQL> begin

 2 insert into student(sid,sname,rank) values(504,'ali','first');

 3 Savepoint A;

 4 insert into student(sid,sname,rank) values(505,'gireesh','third');

 5   Savepoint B;

 6 insert into student(sid,sname,rank) values(506,'gowtham','two');

 7   Savepoint C;

 8 Rollback to B;

 9 Commit;

10 End;

11 /

PL/SQL procedure successfully completed.

SQL> select *from student where sname='goutham';

no rows selected

SQL> select *from student;

       SID SNAME   RANK

---------- -------------------- ----------

       501 Ravi   second

       502 Raju   third

       503 Ramu   first

       504 ali   first

       505 gireesh   third