**Name:** Srushti Satish Kakade

**Roll No:** 39024

**Assignment No:** 05

**Subject:** DBMS

SQL> CREATE TABLE Student (StudentID NUMBER PRIMARY KEY,StudentName VARCHAR2(10),Marks NUMBER);

Table created.

SQL> INSERT INTO Student VALUES (1, 'Srushti', 1500);

1 row created.

SQL> INSERT INTO Student VALUES (2, 'Sampada', 989);

1 row created.

SQL> INSERT INTO Student VALUES (3, 'Vaishnavi', 825);

1 row created.

SQL> INSERT INTO Student VALUES (4, 'Prajakta', 999);

1 row created.

SQL> INSERT INTO Student VALUES (5, 'Akshata', 1005);

1 row created.

SQL> INSERT INTO Student VALUES (6, 'Neha', 458);

1 row created.

SQL> select \* from student;

STUDENTID STUDENTNAM MARKS

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1 Srushti 1500

2 Sampada 989

3 Vaishnavi 825

4 Prajakta 999

5 Akshata 1005

6 Neha 458

6 rows selected.

SQL> CREATE OR REPLACE FUNCTION funcGradeCategory(marks IN NUMBER) RETURN VARCHAR2 IS

2 grade VARCHAR2(20);

3 BEGIN

4 IF marks >= 990 THEN

5 grade := 'Distinction';

6 ELSIF marks >= 900 THEN

7 grade := 'First Class';

8 ELSIF marks >= 825 THEN

9 grade := 'Higher Second Class';

10 ELSE

11 grade := 'Fail';

12 END IF;

13 RETURN grade;

14 END funcGradeCategory;

15 /

Function created.

SQL> SELECT funcGradeCategory(950) AS GradeCategory FROM DUAL;

GRADECATEGORY

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First Class

SQL> SELECT funcGradeCategory(1050) AS GradeCategory FROM DUAL;

GRADECATEGORY

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Distinction

SQL> drop procedure procGrade;

Procedure dropped.

SQL> CREATE OR REPLACE PROCEDURE procGrade AS

2 BEGIN

3 FOR studentrec IN (SELECT StudentID, StudentName, Marks FROM Student) LOOP

4 DBMS\_OUTPUT.PUT\_LINE('Student ' || studentrec.StudentName || ' (ID: ' || studentrec.StudentID || ') has achieved ' || funcGradeCategory(studentrec.Marks) || ' grade.');

5 END LOOP;

6 END procGrade;

7 /

Procedure created.

SQL> EXEC procGrade;

PL/SQL procedure successfully completed.

SQL> SET SERVEROUTPUT ON;

SQL> BEGIN

2 procGrade;

3 END;

4 /

Student Srushti (ID: 1) has achieved Distinction grade.

Student Sampada (ID: 2) has achieved First Class grade.

Student Vaishnavi (ID: 3) has achieved Higher Second Class grade.

Student Prajakta (ID: 4) has achieved Distinction grade.

Student Akshata (ID: 5) has achieved Distinction grade.

Student Neha (ID: 6) has achieved Fail grade.

PL/SQL procedure successfully completed.