CREATE TABLE Stud\_Marks (

Roll NUMBER GENERATED BY DEFAULT AS IDENTITY,

Name VARCHAR2(100),

Total\_Marks NUMBER

);

Table created.

CREATE OR REPLACE PROCEDURE proc\_Grade (

Stud\_Name IN VARCHAR2,

Stud\_Marks IN NUMBER,

Result OUT SYS\_REFCURSOR

) AS

category VARCHAR2(50);

BEGIN

IF Stud\_Marks >= 990 AND Stud\_Marks <= 1500 THEN

category := 'Distinction';

ELSIF Stud\_Marks >= 900 AND Stud\_Marks <= 989 THEN

category := 'First Class';

ELSIF Stud\_Marks >= 825 AND Stud\_Marks <= 899 THEN

category := 'Higher Second Class';

ELSE

category := 'Not Classified';

END IF;

OPEN Result FOR

SELECT Stud\_Name AS Name,

Stud\_Marks AS Total\_Marks,

category AS Class

FROM dual;

END proc\_Grade;

/

Procedure created.

SET SERVEROUTPUT ON;

DECLARE

TYPE StudentRecType IS RECORD (

Name VARCHAR2(100),

Marks NUMBER,

Class VARCHAR2(50)

);

TYPE StudentCurType IS REF CURSOR;

v\_students SYS\_REFCURSOR;

v\_student\_rec StudentRecType;

v\_roll NUMBER := 1;

BEGIN

FOR student\_data IN (

SELECT 'Abhishek' AS Name, 950 AS Marks FROM dual

UNION ALL

SELECT 'Nikhil' AS Name, 1100 AS Marks FROM dual

UNION ALL

SELECT 'Anurag' AS Name, 850 AS Marks FROM dual

)

LOOP

proc\_Grade(student\_data.Name, student\_data.Marks, v\_students);

DBMS\_OUTPUT.PUT\_LINE('Student Result:');

DBMS\_OUTPUT.PUT\_LINE('Roll: ' || v\_roll);

DBMS\_OUTPUT.PUT\_LINE('Name: ' || student\_data.Name);

LOOP

FETCH v\_students INTO v\_student\_rec.Name, v\_student\_rec.Marks, v\_student\_rec.Class;

EXIT WHEN v\_students%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Class: ' || v\_student\_rec.Class);

DBMS\_OUTPUT.PUT\_LINE('Total Marks: ' || v\_student\_rec.Marks);

END LOOP;

CLOSE v\_students;

v\_roll := v\_roll + 1;

END LOOP;

END;

/