

ASSIGNMENT NO – 05

STEP – 1 : Create Table **Stud_Marks** and **Result**

```
SQL> CREATE TABLE Stud_Marks (
```

```
2   name VARCHAR2(50),
```

```
3   total_marks NUMBER
```

```
4 );
```

Table created.

```
SQL> CREATE TABLE Result (
```

```
2   Roll NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
```

```
3   Name VARCHAR2(50),
```

```
4   Class VARCHAR2(20)
```

```
5 );
```

Table created.

STEP – 2: Create the **proc_Grade** Stored Procedure

```
SQL> CREATE OR REPLACE PROCEDURE proc_Grade (
```

```
2   p_name IN VARCHAR2,
```

```
3   p_total_marks IN NUMBER
```

```
4 )
```

```
5 IS
```

```
6   v_class VARCHAR2(20);
```

```
7 BEGIN
```

```
8   -- Determine the class based on the marks
```

```
9   IF p_total_marks >= 990 AND p_total_marks <= 1500 THEN
```

```
10      v_class := 'Distinction';
```

```
11   ELSIF p_total_marks >= 900 AND p_total_marks <= 989 THEN
```

```
12      v_class := 'First Class';
```

```
13   ELSIF p_total_marks >= 825 AND p_total_marks <= 899 THEN
```

```
14      v_class := 'Higher Second Class';
```

```
15   ELSE
```

```
16      v_class := 'No Class'; -- For marks outside the specified ranges
```

```
17   END IF;
```

```
18
```

```
19
```

```
20   INSERT INTO Result (Name, Class)
```

```
21   VALUES (p_name, v_class);
```

```
22
```

```
23   -- Commit the transaction
```

```
24   COMMIT;
```

```
25 END proc_Grade;
```

```
26 /
```

Procedure created.

STEP – 3: Insert record into Stud_Marks

```
INSERT INTO Stud_Marks (name, total_marks) VALUES (Rajnandini, 1000);
```

```
INSERT INTO Stud_Marks (name, total_marks) VALUES (Vanita, 920);
```

```
INSERT INTO Stud_Marks (name, total_marks) VALUES (Tanuja, 860);
```

STEP – 4: Create a PL/SQL Block to Use the **proc_Grade** Procedure

SQL> DECLARE

```
2  v_name Stud_Marks.name%TYPE;
3  v_total_marks Stud_Marks.total_marks%TYPE;
4  BEGIN
5
6  FOR rec IN (SELECT name, total_marks FROM Stud_Marks) LOOP
7      v_name := rec.name;
8      v_total_marks := rec.total_marks;
9
10     -- Call the proc_Grade procedure
11     proc_Grade(v_name, v_total_marks);
12 END LOOP;
13 END;
14 /
```

PL/SQL procedure successfully completed.

OUTPUT:

SELECT *FROM Result;

ROLL	NAME	CLASS
1	Rajnandini	Distinction
2	Vanita	First Class
3	Tanuja	Higher Second Class