**NAME : MANGESH A. GHADWAJE**

**ROLL NO:24**

**BATCH : B2**

**COURSE: DBMS PRACTICAL**

**Assignment No:-6**

**Problem Statement:**

**Practical Statement:**

**Study & Implementation of PL/SQL**

**Create table student(Rollno, name, percentage). Insert suitable records in**

**the table.**

**Write a PL/SQL block of code for the following requirements:-**

** Accept rollno from user**

** Retrieve name and percentage of the students with rollno given by**

**user.**

** calculate grade of that student as per follows**

**Percentage>=80 then grade=A+**

**Percentage>=70 and <80 then grade=A**

**Percentage>=60 and <70 then grade=B+**

**Percentage>=50 and <60 then grade=B**

**Percentage>=40 and <50 then grade=C**

**Percentage below 40 then grade = fail**

** print rollno, name, percentage and grade of student**

**use appropriate control structure and exception handling**

**Solution :**

**CREATE TABLE student (**

**Rollno NUMBER,**

**Name VARCHAR2(50),**

**Percentage NUMBER**

**);**

**select \* from student**

**-- Insert some sample records**

**INSERT INTO student (Rollno, Name, Percentage) VALUES (1, 'John',**

**85);**

**INSERT INTO student (Rollno, Name, Percentage) VALUES (2, 'Alice',**

**75);**

**INSERT INTO student (Rollno, Name, Percentage) VALUES (3, 'Bob',**

**65);**

**INSERT INTO student (Rollno, Name, Percentage) VALUES (4, 'Emma',**

**55);**

**INSERT INTO student (Rollno, Name, Percentage) VALUES (5,**

**'Michael', 45);**

**INSERT INTO student (Rollno, Name, Percentage) VALUES (6, 'Sophia',**

**35);**

**DECLARE**

**v\_rollno student.rollno%TYPE;**

**v\_name student.name%TYPE;**

**v\_percentage student.percentage%TYPE;**

**v\_grade VARCHAR2(10);**

**BEGIN**

**v\_rollno := :roll\_number;**

**SELECT name, percentage INTO v\_name, v\_percentage**

**FROM student**

**WHERE Rollno = v\_rollno;**

**IF v\_percentage >= 80 THEN**

**v\_grade := 'A+';**

**ELSIF v\_percentage >= 70 AND v\_percentage < 80 THEN**

**v\_grade := 'A';**

**ELSIF v\_percentage >= 60 AND v\_percentage < 70 THEN**

**v\_grade := 'B+';**

**ELSIF v\_percentage >= 50 AND v\_percentage < 60 THEN**

**v\_grade := 'B';**

**ELSIF v\_percentage >= 40 AND v\_percentage < 50 THEN**

**v\_grade := 'C';**

**ELSE**

**v\_grade := 'Fail';**

**END IF;**

**DBMS\_OUTPUT.PUT\_LINE('Roll No: ' || v\_rollno);**

**DBMS\_OUTPUT.PUT\_LINE('Name: ' || v\_name);**

**DBMS\_OUTPUT.PUT\_LINE('Percentage: ' || v\_percentage);**

**DBMS\_OUTPUT.PUT\_LINE('Grade: ' || v\_grade);**

**EXCEPTION**

**WHEN NO\_DATA\_FOUND THEN**

**DBMS\_OUTPUT.PUT\_LINE('No student found with Roll No: ' ||**

**v\_rollno);**

**WHEN OTHERS THEN**

**DBMS\_OUTPUT.PUT\_LINE('An error occurred: ' || SQLERRM);**

**END;**