PG-DAC August 25
Assignment No-6

1) Write a SQL query to **create a stored procedure without any parameters** that displays all employees from the Emp table.
2) Write a SQL query to **create a stored procedure with an IN parameter** that accepts a department ID and displays all employees belonging to that department.
3) Write a SQL query to **create a stored procedure with an OUT parameter** that returns the total number of employees in the Emp table.
4) **Write a SQL function that accepts an employee's salary as input and returns a grade based on the following conditions:**

If salary ≥ 80,000 → Grade = 'A'

If salary ≥ 50,000 and < 80,000 → Grade = 'B'

If salary ≥ 30,000 and < 50,000 → Grade = 'C'

Otherwise → Grade = 'D'

Use appropriate **IF / IF-ELSE / CASE statements** inside the function to implement this logic.

5) Write a stored procedure that uses an **explicit cursor** to fetch and display the details of all employees whose salary is greater than 60,000 from the Emp table. Make sure to DECLARE, OPEN, FETCH, and CLOSE the cursor properly.

6) Write a trigger on the Emp table that checks before inserting a new employee record:

If the Salary is less than 10,000, prevent the insertion and raise an error message "Salary too low".

7) Write a stored procedure in SQL to **print numbers from 1 to 10** using a **WHILE loop**.

8) Write a stored procedure to print the multiplication table of 2 using a loop

9) Write a function **to** check whether a number is even or odd.

10) Write a user-defined function to calculate the factorial of a given number.