

**DBMS I LAB ASSIGNMENT(PL/SQL) (MCAP2111)**  
**MCA 2<sup>nd</sup>yr Year 3<sup>rd</sup> Semester**  
**Session: 2023**

**PART-II (PL/SQL)**

***SET-IV(Functions & Exceptions)***

1. Write a function which accepts the name from user and returns the length of that name.
2. Write a function to find the roots of a quadratic equation.
3. Write a function to reverse an input string and check whether it is palindrome or not.
4. Write a function to abbreviate a full name taken from the user. Viz. Ram Kumar Dutta(input) →R.K.D. (output)
5. Write a function which accept the company\_id and returns maximum salary of that company. Handle the error if company\_id does not exist or select statement return more than one row.
6. Write a function to display whether the inputted emp\_no is exists or not, if does not exist then display an appropriate error message.
7. Write a function which accepts the emp\_no. If salary<10000 than give raise by 30%. If salary<20000 and salary>=10000 than give raise by 20%. If salary>20000 then give raise by10%. Handle the error if any.
8. Write a function which accepts the emp\_no and returns the experience in years. Handle the error if employee does not exist.

***SET- V(Procedures & Exceptions)***

1. Write a Procedure to swap 2 numbers.
2. Write a Procedure to check whether a given year is leap year or not.
3. Write a procedure which accepts the name from the user. Return UPPER if name is in uppercase, LOWER if name is in lowercase.
4. Write a Procedure which upgrade an employee as manager by increasing the salary(Rs.10000) and designation (mgr), the emp\_id is initialized by user. It also assign at least one employee under him, taken from the manager of that company with maximum employee.
5. Write a procedure which accepts the emp\_no and returns the associated employee information. If emp\_no does not exist than give proper error message.
6. Write a procedure which accepts the company\_id and returns the highest salary and name of the employee in that company to the calling block.
7. Write a procedure which accepts the date of joining for specific employee and returns the date of retirement along with its name. Accept the employee no from user.

**Note:** Date of retirement is the last day of the month of birth at the age of 60 years.