PL/SQL 1- Lab 13

1. Write PL/SQL blocks to show the declaration of variables.

Follow the following instructions:

- Declare variables for all attributes existing in emp table.
- Variables datatypes should be defined appropriately and use Rowtype for any two variables.
- Initialize any two variables at the time of declaration.
- Assign values to remaining variables by showing the complete emp table's attribute data.

2. Write a PL/SQL block to calculate the incentive of an employee whose ID is 110.

3. Write a PL/SQL program to check whether a number is even or odd by using IF END.

4. Write a PL/SQL program to check whether a given number is positive, negative or zero IF ELSE END IF.

5. Write a PL/SQL program to count the number of employees in department 50 and check whether this department has any vacancies or not. There are 45 vacancies in this department.

6. Write a PL/SQL program to make a calculator (DMAS rules) using CASE statement.

7. Write a program in PL/SQL to print factorial of a given number. (using for loop)

8. Write a program in PL/SQL to update the salary of a specific employee by 8% if the salary exceeds the mid-range of the salary against this job update up to mid-range if the salary is less than the mid-range of the salary, and display a suitable message.

9. Correct the program and find the output:

```
CREATE TABLE emp_temp (
  emp_id      NUMBER,
  emp_email   VARCHAR2(40)
);

DECLARE
  number_of_emp  NUMBER;
BEGIN
  SELECT COUNT(employee_id) INTO number_of_emp
  FROM employees;

  FOR i IN 1..number_of_emp LOOP
    INSERT INTO emp_temp (emp_id, emp_email)
    VALUES(i, 'not available now');
  END LOOP;
END;
/
```
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