

## IF Condition Scenarios

### 1. Salary Adjustment Policy

The HR department wants to increase salaries:

- If salary < 30,000 → increase by 15%
- If between 30,000–50,000 → increase by 10%
- Otherwise → increase by 5%.

Write a PL/SQL block that applies this rule for a given employee.

### 2. Exam Grading System

A university stores student scores in a table. Write a PL/SQL program that checks a student's marks and prints:

- $\geq 90$  → "Excellent"
- 70–89 → "Good"
- 50–69 → "Pass"
- Below 50 → "Fail".

### 3. Loan Eligibility Check

A bank gives loans only if:

- Customer salary > 40,000 AND age < 60
- Otherwise → "Not Eligible."

Write a program using IF condition.

### 4. Stock Discount Application

An online store applies discounts:

- If product price > 10,000 → 20% discount
- If between 5,000–10,000 → 10% discount
- Otherwise → no discount.

Write a PL/SQL program to implement this.

### 5. Employee Bonus Allocation

In a company, employees with more than 5 years of service receive a bonus of 5,000, otherwise 2,000. Use an IF statement to calculate bonus for an employee based on hire\_date.

## LOOP

### 6. ATM Cash Dispensing

An ATM dispenses cash in multiples of 500. Write a loop that breaks down a withdrawal amount into 500, 100, and 50 notes.

7. **Restaurant Bill Calculation**

A restaurant system calculates total bills. Write a loop that takes the price of 5 items and calculates the final total.

8. **Cinema Ticket Booking**

A cinema hall allows bulk booking. Write a FOR loop that prints seat numbers booked (e.g., from 21 to 30 if the customer books 10 seats).

9. **Electricity Bill Slab Calculation**

A power company charges per unit consumed:

- First 100 units → 3 AFN each
- Next 200 units → 5 AFN each
- Above 300 units → 7 AFN each.

Write a loop to calculate the bill for a customer.

10. **Library Late Fees**

A library charges a late fee of 10 AFN per day for the first 5 days, and 20 AFN per day afterward. Write a loop to calculate the fine for N delayed days.

11. **Bank Interest Accumulation**

Write a loop that calculates the compound interest of an amount deposited in a savings account for N years.

12. **Student Attendance Record**

Loop through the days of a month (1–30) and mark attendance as “Present” or “Absent” for a student based on given inputs.

**CURSOR**

13. **List Employees in a Department**

HR wants to see all employees in a specific department. Write a cursor to fetch and print employee names and salaries.

14. **Update Salaries in Bulk**

For all employees with job\_title = “Salesman,” increase salary by 2,000. Use a cursor FOR UPDATE.

15. **Top Student Finder**

Use a cursor to find the student with the highest GPA in each class.

16. **Customer Credit Check**

A shop keeps customer orders in a table. Write a cursor to list all customers whose unpaid bills are greater than 5,000.

17. **Service Years Report**

HR wants a report of employees with their years of service (today - hire\_date). Write a cursor that calculates this.

**18. Low Stock Notification**

An inventory system flags products with stock < 10. Write a cursor that fetches such products and marks them "Reorder Needed."

**19. Department Salary Report**

Write a cursor that shows the total salary paid in each department.

**20. Monthly Rent Collection**

A property company stores tenant data. Write a cursor to fetch all tenants who have not paid rent this month and send them a reminder.