

# Logical Functions & Lookup

## Assignment



# Assignment Questions

1. Write a formula to check if the marks in cell B2 are **greater than or equal to 40**. If yes, return "Pass", otherwise "Fail".

Student Name	Marks
Riya	45
Siya	72
Raju	55
Rahul	80
Ram	30

2. A company gives a bonus if sales are above 40,000 and attendance is greater than or equal to 90%. Write a formula to calculate whether the employee will get a bonus or not .

Employee	Sales	Attendance
Arjun	55000	95
Simran	65000	85
Rohit	30000	90
Anjali	25000	65

3. Write a nested IF formula:

If marks in B2 are  $\geq 90 \rightarrow$  "A",  $\geq 75 \rightarrow$  "B",  $\geq 50 \rightarrow$  "C", otherwise "Fail".

Student Name	Marks
Raj	85
Neha	96
Vivek	57
Rani	92
Sneha	75

4. Find the **Department** of Employee ID = E103. Also explain which LOOKUP function is used and why?

EmpID	Name	Department
E101	Raju	IT
E102	Riya	HR
E103	Roshni	Finance
E104	Sejal	Sales

5. A company has set the following **commission structure** for its sales team:

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Sales Amount	Commission Rate
0	5%
20000	10%
50000	15%
80000	20%

If a salesperson achieves **sales of ₹45,000**, use the **VLOOKUP function** to determine the **commission rate** applicable.

6. The HR department maintains the following leave records of employees:

Employee Name	Leaves Taken	Leaves Allowed
Alex	10	12
Bob	10	15
Anna	8	12

Write an **IF function** to check whether an employee has **Exceeded** their allowed leave balance.

- If **Leaves Taken > Allowed Leaves**, display "**Exceeded**".
- Otherwise, display "**OK**".

7. Find the salary of EmpID = E105 using INDEX-MATCH Function.

EmpID	Salary
E104	55000
E105	72000
E106	62000
E102	41000

8. Use the **XLOOKUP function** to find the **Department** of the employee with **Emp ID = E303**.

EmpID	Salary
E101	HR
E303	IT
E106	Sales
E301	Finance