# Logical Functions & Lookup-Assignment

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**Question 1-    write a formula to check if the marks in cell are greater than or equal to 40000. I**
Formula =IF(B2>=40000,"Pass","Fail")

**Question 2. Bonus based on sales and attendance:**
Formula: =IF(AND(B2>40000,C2>=90),"Bonus","No Bonus")

**Question 3. Nested iF for grades:**
Answer =IF(B2>=90,"A",IF(B2>=75,"B",IF(B2>=50,"C","Fail")))

**Question 4-Find the Department of Employee ID = E103.**
Use **VLOOKUP** because the lookup value (EmpID) is in the **first column** of the table
Answer =VLOOKUP("E103",A2:C5,3,FALSE)
Resul: Finance

**Question 5-If a salesperson achieves sales of ₹45,000, use VLOOKUP to determine the commiss**
5. Commission for sales 45000 using VLOOKUP:
Formula: =VLOOKUP(45000,A2:B5,2,TRUE)
Result: 10%

**Question 6-Write an IF function to check whether an employee has exceeded their allowed lea**
6. Check leave limit:
Formula: =lF(B2>C2, "Exceeded", "OK")

**Question 7-Find the Salary of EmpID = E105 using INDEX–MATCH.**
7. Salary of EmpiD E105 using INDEX-MATCH:
Formula: =INDEX(B2:B5,MATCH("E105",AZ:A5,0))
Result: 72000

**Question 8-Use the XLOOKUP function to find the Department of the employee with EmpID = I**
8. Department for EmpiD E303 using XLOOKUP:
Formula: =XLOOKUP("E 303",A2:A5,B2:B5)
Result:- IT