

## IICT

## Lab 05

### Practice Tasks

#### Task 1 – Using COUNTIF

Create 10 students list and assign them random marks out of 100 and then count how many students:

1. Scored above 80.
  2. Failed (marks < 40).
  3. Got exactly 100.
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#### Task 2 – Using SUMIF

You have a sales table:

Product	Salesperson	Sales Amount
Laptop	Ali	50000
Mobile	Sara	30000
Laptop	Ali	40000
Tablet	Ahmed	15000

Product	Salesperson	Sales Amount
Laptop	Ali	50000
Mobile	Sara	30000
Laptop	Ali	40000
Tablet	Ahmed	15000

1. Find the **total sales made by Ali**.
  2. Find the **total sales for Laptops only**.
  3. Find the **total sales made by Sara if sales > 20000**.
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#### Task 3 – Using VLOOKUP

You have the following table of **Employee IDs and Departments**:

ID	Name	Department
101	Ahmed	HR

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**ID Name Department**

102 Sara IT  
103 Ali Finance  
104 Ayesha Marketing

1. Write a formula to **find the Department of ID = 103**.
  2. If you type an employee ID in cell **F2**, use **VLOOKUP** to display the **Name**.
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**Task 4 – Using IF**

You have student marks in column **B**. Write formulas to:

1. If marks  $\geq 50 \rightarrow$  “Pass”, otherwise “Fail”.
  2. If marks  $\geq 80 \rightarrow$  “A”,  $\geq 60 \rightarrow$  “B”, otherwise “C”.
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**Task 5 – Nested IF with AND/OR**

You are grading students based on marks in **Math (B)** and **English (C)**:

**Student Math English**

Ali	85	70
Sara	40	60
Ahmed	75	35
Ayesha	90	88

1. If **Math  $\geq 50$  AND English  $\geq 50$**   $\rightarrow$  “Pass”, otherwise “Fail”.
2. If **Math  $\geq 80$  OR English  $\geq 80$**   $\rightarrow$  “Scholarship Eligible”, otherwise “Not Eligible”.
3. Give a grade system:
  - o If both  $\geq 80 \rightarrow$  “Excellent”
  - o If both  $\geq 50 \rightarrow$  “Good”
  - o Else  $\rightarrow$  “Needs Improvement”