**XLOOKUP in Excel**

XLOOKUP is a powerful lookup function that replaces older functions like VLOOKUP, HLOOKUP, and LOOKUP. It searches a **range or array**, finds the **match**, and returns the corresponding value from another column.

**Syntax:**

XLOOKUP(lookup\_value, lookup\_array, return\_array, [if\_not\_found], [match\_mode], [search\_mode])

| **Argument** | **Description** |
| --- | --- |
| lookup\_value | The value to search for |
| lookup\_array | The range/column to search in |
| return\_array | The range/column to return value from |
| if\_not\_found *(optional)* | Value to return if not found |
| match\_mode *(optional)* | 0=Exact match (default), -1=Exact or next smaller, 1=Exact or next larger, 2=Wildcard |
| search\_mode *(optional)* | 1=Search first-to-last (default), -1=last-to-first |

**Why Use XLOOKUP?**

* Works left-to-right or right-to-left (unlike VLOOKUP).
* Replaces both VLOOKUP and HLOOKUP.
* Easier to use with cleaner syntax.
* Supports error handling with if\_not\_found.

**Example:**

Suppose we have:

| **A (ID)** | **B (Name)** | **C (Salary)** |
| --- | --- | --- |
| 101 | Raj | 30000 |
| 102 | Simran | 35000 |
| 103 | Amit | 40000 |

To find **Salary of ID 102**:

=XLOOKUP(102, A2:A4, C2:C4)

Returns: 35000

**PRACTICE QUESTIONS**

**Dataset 1: Employees**

| **A (Emp ID)** | **B (Name)** | **C (Department)** | **D (Salary)** |
| --- | --- | --- | --- |
| 101 | Raj | HR | 30000 |
| 102 | Simran | Finance | 35000 |
| 103 | Amit | IT | 40000 |
| 104 | Riya | Sales | 32000 |
| 105 | Kabir | HR | 37000 |

**Dataset 2: Products**

| **A (Product ID)** | **B (Product Name)** | **C (Price)** |
| --- | --- | --- |
| P101 | Mouse | 500 |
| P102 | Keyboard | 1000 |
| P103 | Monitor | 7000 |
| P104 | Laptop | 55000 |
| P105 | Headphone | 2000 |

**Dataset 3: Students**

| **A (Roll No)** | **B (Name)** | **C (Marks)** |
| --- | --- | --- |
| 201 | Neha | 89 |
| 202 | Rohan | 76 |
| 203 | Meena | 93 |
| 204 | Akash | 84 |
| 205 | Ritu | 91 |

**Questions:**

1. Get the **name** of employee with ID 103.
2. Find the **department** of employee 104.
3. Return the **salary** of employee named "Kabir".
4. Display "Not Found" if Emp ID 999 doesn't exist.
5. Return the **department** of employee whose name is Raj.
6. Find the **price** of product P104.
7. Get the **product name** with ID P103.
8. Return the **roll number** of student Akash.
9. Get the **marks** of student with roll number 205.
10. Show the **price** of a product P999 (handle if not found).
11. Find the **name** of student with marks 93.
12. Lookup employee salary from **Name**.
13. Lookup **product ID** from product name Monitor.
14. Lookup **department** using employee name Simran.
15. Get marks of student Neha using XLOOKUP.
16. Return “Not Available” if student roll number 999 not found.
17. Lookup the product name for ID P105.
18. Get the salary of employee 102.
19. Get marks of student Ritu.
20. Find the product price for product name Laptop.

**SOLUTIONS**

1. =XLOOKUP(103, A2:A6, B2:B6) → Amit
2. =XLOOKUP(104, A2:A6, C2:C6) → Sales
3. =XLOOKUP("Kabir", B2:B6, D2:D6) → 37000
4. =XLOOKUP(999, A2:A6, B2:B6, "Not Found") → Not Found
5. =XLOOKUP("Raj", B2:B6, C2:C6) → HR
6. =XLOOKUP("P104", A10:A14, C10:C14) → 55000
7. =XLOOKUP("P103", A10:A14, B10:B14) → Monitor
8. =XLOOKUP("Akash", B18:B22, A18:A22) → 204
9. =XLOOKUP(205, A18:A22, C18:C22) → 91
10. =XLOOKUP("P999", A10:A14, C10:C14, "Not Found") → Not Found
11. =XLOOKUP(93, C18:C22, B18:B22) → Meena
12. =XLOOKUP("Simran", B2:B6, D2:D6) → 35000
13. =XLOOKUP("Monitor", B10:B14, A10:A14) → P103
14. =XLOOKUP("Simran", B2:B6, C2:C6) → Finance
15. =XLOOKUP("Neha", B18:B22, C18:C22) → 89
16. =XLOOKUP(999, A18:A22, C18:C22, "Not Available") → Not Available
17. =XLOOKUP("P105", A10:A14, B10:B14) → Headphone
18. =XLOOKUP(102, A2:A6, D2:D6) → 35000
19. =XLOOKUP("Ritu", B18:B22, C18:C22) → 91
20. =XLOOKUP("Laptop", B10:B14, C10:C14) → 55000