■ Revision Notes — Row Sum & Max Row Sum (Java)

■ Problem:

You are given an n × m matrix. Task: 1. Find the sum of each row. 2. Print each row's sum. 3. Find the maximum row sum among them.

■ Steps (Logic):

1. Input: Read n (rows), m (columns), and the matrix.
2. Row-wise Sum Calculation: For each row, reset sum=0, then add each element of the row.
3. Track Maximum Row Sum: After each row, compare sum with maxSum.
4. Final Output: Print maxSum at the end.

■ Dry Run Example:

Input:
n = 3, m = 3
Matrix:
1 2 3
4 5 6
7 8 9

Row 0 sum = 1+2+3 = 6 → maxSum = 6
Row 1 sum = 4+5+6 = 15 → maxSum = 15
Row 2 sum = 7+8+9 = 24 → maxSum = 24

Output:
6
15
24
24

■ Key Points to Remember:

• Reset sum to 0 at the start of each row.
• Update maxSum after finishing each row's sum.
• Initialize maxSum properly (better to use Integer.MIN_VALUE).
• Formula: Row Sum = add all elements in row i; Max Row Sum = maximum of all row sums.