Example of writing pseudocodes for 2 problems

PROBLEM 1 – Daily Sales Analysis (2D Array)

Pseudocode

```
START

Declare a 2D array sales with 3 rows (products) and 4 columns (days)

FOR each product i from 0 to number of products - 1 DO
  SET sum = 0

  FOR each day j from 0 to number of days - 1 DO
    sum = sum + sales[i][j]
  END FOR

  PRINT "Product i total sales = sum"
END FOR

END
```

- Each **row** represents one product.
- Each **column** represents sales for a day.
- Outer loop → moves **product-wise**
- Inner loop → accumulates **daily sales** for that product.

PROBLEM 2 – Student Attendance Tracking (2D Array)

Pseudocode

```
START

Declare a 2D array attendance with
```

```
rows = students
columns = days
(1 = present, 0 = absent)

FOR each student i from 0 to number of students - 1 DO
  SET count = 0

  FOR each day j from 0 to number of days - 1 DO
    count = count + attendance[i][j]
  END FOR

  PRINT "Student i attendance = count"
END FOR

END
```

- Each **row** corresponds to one student.
- Each **column** corresponds to a day.
- Adding 1s directly gives **total presence count**.
- Structure is **row-wise traversal**, same as matrix logic.