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1  /* PRACTICAL-9: Write a program that generate 6*6 two-dimensional matrix, filled with 0's and 1's , display the
2  matrix, check every raw and column have an odd number's of 1's.
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6
7  // CODE:
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8
9  public class practical9
10 {
11     public static int[][] generateMatrix() {
12         int[][] matrix = new int[6][6];
13         for (int i = 0; i < 6; i++) {
14             for (int j = 0; j < 6; j++) {
15                 matrix[i][j] = (int)((Math.random() * 5) % 2);
16             }
17         }
18         return matrix;
19     }
20     public static void displayMatrix(int[][] matrix) {
21         System.out.print("Matrix Values \n");
22         for (int i = 0; i < 6; i++) {
23             for (int j = 0; j < 6; j++) {
24                 System.out.print(matrix[i][j] + " ");
25             }
26             System.out.println();
27         }
28     }
29     public static void main(String[] args) {
30         int matrix[][];
31         int i, j, count;
32         matrix = generateMatrix();
33         displayMatrix(matrix);
34         System.out.println("\n--> Rows Having ODD number of 1s: ");
35         for (i = 0; i < 6; i++) {
36             count = 0;
37             for (j = 0; j < 6; j++) {
38                 if (matrix[i][j] == 1) {
39                     count++; }
40             }
41             if (count % 2 != 0) {
42                 System.out.println("Row - " + (i + 1) + " have ODD no of 1s"); }
43         }
44         System.out.println("\n--> Columns Having ODD no of 1s: ");
45         for (i = 0; i < 6; i++) {
46             count = 0;
47             for (j = 0; j < 6; j++) {
48                 if (matrix[j][i] == 1) {
49                     count++; }
50             }
51             if (count % 2 != 0) {
52                 System.out.println("Column - " + (i + 1) + " have ODD number of 1s"); }
53         }
54     }
55 }
```