**JAVA PROGRAM 1:**

**Write a Java program to find the row, column position of a specified number (row, column position) in a given 2-dimensional array.**

import java.util.\*;

public class abc {

public static void main(String[] args) {

int nums[][] = {{12, 20, 30, 40},

{15, 25, 35, 45},

{24, 29, 39, 51},

{35, 30, 39, 50},

{50, 60, 75, 72}};

int rows = 5;

int search\_element = 40;

int ans[] = Saddleback(nums, rows - 1, 0, search\_element);

System.out.println("Position of "+search\_element+" in the matrix is ("+ans[0] + "," + ans[1]+")");

}

private static int[] Saddleback(int nums[][], int row, int col, int search\_element) {

int element\_pos[] = {-1, -1};

if (row < 0 || col >= nums[row].length) {

return element\_pos;

}

if (nums[row][col] == search\_element) {

element\_pos[0] = row;

element\_pos[1] = col;

return element\_pos;

}

else if (nums[row][col] > search\_element) {

return Saddleback(nums, row - 1, col, search\_element);

}

return Saddleback(nums, row, col + 1, search\_element);

}

}

**OUTPUT:**

