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Practical 11

Aim: Write a program that generate 6*6 two-dimensional matrix, filled with 0's and 1's, display the matrix, check every raw and column have an odd number's of 1's.

Code:

```
import java.util.*;
class Practical11
{
       public static void main(String args[])
              int[][] a = new int[6][6];
              System.out.println("The Matrix is...");
              for(int i=0; i<a.length;i++)
              {
                     for(int j = 0; j < a[i].length;j++){
                            a[i][j] = (int)(Math.random()*2);
                            System.out.print(a[i][j]+" ");
                             }
                     System.out.println();
              }
       System.out.println("----->");
       checkRow(a);
       System.out.println("----->");
```

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```
checkColumn(a);
System.out.println("----->");
}
public static void checkRow(int[][] matrix)
int count;
for(int i=0; i<matrix.length; i++)
count=0;
for(int j=0;j<matrix[i].length; j++)
       if(matrix[i][j]==1)
              count++;
if(count%2!=0)
       System.out.println("Row#"+i+" contains odd number of 1's");
public static void checkColumn(int[][] matrix)
       int count;
       for(int i = 0;i<matrix.length;i++)
```

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```
count=0; \\ for(int j = 0; j < matrix[i].length; j++) \\ \{ \\ if(matrix[j][i]==1) \\ count++; \\ \} \\ if(count\%2!=0) \\ System.out.println("Column \#"+i+" contains odd number of 1's"); \\ \} \\ \} \\ \}
```

Output: