**Code:**

```
package information_security;

public class RowColumnTranspositon {
   public static void ecryption(String message, int[] key, char[][]
endCharMatrix, int noRow, int noCol) {
      String plaintext = message.replaceAll("\\s", "");

      char[][] matrix = new char[noRow][noCol];


      // below code places the plaintext characters into the matrix
      System.out.println("Row-Column Tranposition Technique: ");
      int index = 0;
      for (int i = 0; i < 5; i++) {
         for (int j = 0; j < 7; j++) {
            if (index < plaintext.length()) {
               matrix[i][j] = plaintext.charAt(index);
               index++;
            } else {
               // If the string is shorter than the matrix, fill with characters from
endCharMatrix
               matrix[i][j] = endCharMatrix[i][j];
            }
         }
      }

      // below code print the matrix
      for (int i = 0; i < noRow; i++) {
         for (int j = 0; j <noCol; j++) {
            System.out.print(matrix[i][j] + " ");
         }
         System.out.println();
      }
      System.out.println();

      // this code print the elements column by column in one line
      System.out.print("Encryption: ");
      for (int j = 0; j < matrix[0].length; j++) {
```

```
        for (int i = 0; i < matrix.length; i++) {
          System.out.print(matrix[i][j]);
        }
      }
      System.out.println();


  }

  public static void main(String[] args) {
      String message = "Kill corona virus at twelve am tomorrow";
      int[] key = {4, 3, 1, 5, 6, 7};
      char[][] endCharMatrix = {
            {'y', 'z', 'x', 'w', 'v', 'u', 't'},
            {'s', 'r', 'q', 'p', 'o', 'n', 'm'},
            {'l', 'k', 'j', 'i', 'h', 'g', 'f'},
            {'e', 'd', 'c', 'b', 'a', '9', '8'},
            {'7', '6', '5', '4', '3', '2', '1'}
      };
      int noRow = 5;
      int noCol = 7;

      ecryption(message, key, endCharMatrix, noRow, noCol);

      System.out.println("Decryption: " + message);
  }
}
```

**OUTPUT:**

Row-Column Transposition Technique:

```
k i l l c o r
o n a v i r u
s a t t w e l
v e a m t o m
o r r o w 2 1
```

Encryption: Kosvoinaerlatarlvtmociwtworeo2rulm1
Decryption: Kill corona virus at twelve am tomorrow