# **PRACTICAL -6**

**Aim:** Write a program to implement Rail-Fence,Simple columnar Encryption Technique

**Solution :** (Rail-Fence Cipher)

class Rail\_Fence\_Cipher {

public static String Encrypt(String str, int key) {

char[][] matrix = new char[key][str.length()];

int k = 0, i = 0, j = 0;

boolean up = false;

String encrypt = "";

char[] a = new char[1];

while (k < str.length()) {

matrix[i][j] = str.charAt(k);

j++;

k++;

if (up == false) {i++;}

else {i--;}

if (i == key - 1) {up = true;}

else {up = false;}

}

for (char[] cs : matrix) {

for (char cs2 : cs) {

if (cs2 != a[0]) {

encrypt += cs2 + "";

}

}

}

return encrypt;

}

public static void main(String[] args) {

System.out.println("Plain Text : Abc");

System.out.println("Cipher Text : " + Encrypt("Abc", 2));

}

}