```
import java.util.Arrays;
import java.util.Scanner;
public class Railfence {
public static void Encrypt(String str, int n)
{
//if depth = 1
if (n == 1)
{
System.out.print(str);
return ;
}
char[] str1 = str.toCharArray();
int len = str.length();
String[] arr = new String[n];
Arrays.fill(arr, "");
int row = 0;
boolean down = true;

for (int i = 0; i < len; i++)
{
arr[row] = arr[row] + (str1[i]);
if (row == n - 1)
{
down = false;
}
else if (row == 0)
{
down = true;
}
if (down)
{
row++;
}
else
{
row--;
}
}
for (int i = 0; i < n; i++)
{
System.out.print(arr[i]);
}
}
public static void main(String[] args) {
```

```
Scanner sc = new Scanner(System.in);
System.out.println("Enter the String for Encryption: ");
String str = new String();
str = sc.next(); //plaintext from user
int n = 3; //key / rows
System.out.println("Encrypted String:");
Encrypt(str, n);
}
}
```