11/21/2017 Vigenere.java

E:\stage 3\Security\Midterm\Vigenere\src\vigenere\Vigenere.java

```
1 /**
2 * @author Rezhwan Sidiq
3 * 22/Nov/2017
4 * MidtermExam Study (- -
5 * 6:35
6 */
7 package vigenere;
8 public class Vigenere {
     char[] alpha = {'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z'};
     void encripyion(String message,String key) {
10
11
12
        char[] charmessage = message.toCharArray();
13
        char[] charkey = key.toCharArray();
14
        int keylength = key.length();
15
16
        int indexMessage[]=new int[charmessage.length];
17
        int indexkey[] =new int[charmessage.length];
18
        int chipherIndex[]=new int[charmessage.length];
19
20
        // Message convert to index of alpha
21
        for (int i = 0; i < charmessage.length; <math>i++) {
22
           for (int j = 0; j < alpha.length; <math>j++) {
23
             if (charmessage[i] == alpha[i]) {
24
                indexMessage[i] = i;
25
26
27
28
29
        // Key convert to index of alpha
30
        for (int i = 0; i < charkey.length; i++) {
           for (int i = 0; i < alpha.length; <math>i++) {
31
32
             if (charkey[i] == alpha[j]) {
33
                indexkey[i] = j;
34
35
           }
36
37
38
        for (int i = 0; i < charmessage.length; <math>i++) {
39
           indexkey[i] = indexkey[i % keylength];
40
41
42
        for (int i = 0; i < chipherIndex.length; <math>i++) {
           chipherIndex[i] = (indexMessage[i] + indexkey[i])%26;
43
44
45
        System.out.print("cipher result -->");
46
         for (int i = 0; i < \text{charmessage.length}; i++) {
47
            System.out.print(alpha[chipherIndex[i]]);
48
49
         } System.out.println("");
            System.out.println("-----");
50
51
52
53
     void decripyion(String message,String key) {
54
55
        char[] charmessage = message.toCharArray();
```

105 cipher result -->rezhwan

107 */

106 -----