```
1
2 // Fibonacci numbers are a series of numbers where the
  first two numbers are 1,
 3 // and each subsequent number is the sum of the two
   previous numbers.
4 //
5 // e.g. 1 1 2 3 5 8 13 ....
6 //
7 // Create a program that calculates and outputs the first
   20 numbers in the
8 // sequence on a single line.
10 public class Assignment1b {
11
12
       public static void main(String[] args) {
13
14
           // making an array of characters to contain the
  modified alphabet
           char[] oldAlphabet = {'A', 'B', 'C', 'D', 'E', 'F'
15
    'G', 'H', 'Ī', 'J', 'K', 'L', 'M',
                                  'N', 'O', 'P', 'O', 'R', 'S'
16
     'T', 'U', 'V', 'W', 'X', 'Y', 'Z'};
           char[] newAlphabet = {'N', '0', 'P', 'Q', 'R', 'S'
17
    'T', 'U', 'V', 'W', 'X', 'Y', 'Z',
                                  'A', 'B', 'C', 'D', 'E', 'F'
18
     'G', 'H', 'I', 'J', 'K', 'L', 'M'};
19
           //storing a single word as a constant variable
20
21
           String str = "secret";
22
           char encryptedText = ' ';
23
24
25
           // looping through each letter in the string
26
           int count = 0;
27
           System.out.println("Decrypted Text: ");
28
           System.out.println(str);
           System.out.println("Encrypted Text: ");
29
30
           for (int i=0; i<str.length(); i++){</pre>
               // making each character a single character and
31
    holding it into "ch"
32
               char ch = str.charAt(i);
33
               // checking if the character is equal to the
34
  character input
35
               if (ch >= 'a' && ch <= 'm') {
36
                   count++;
```

```
File - C:\Users\Asus\OneDrive - Nova Scotia Community College\PROG1400\assignment-1-w0441213\src\Assignment1b.java
37
                        encryptedText = (char) (ch + 13);
38
                   else if (ch >= 'n' && ch <= 'z') {
39
40
                        count++;
                        encryptedText = (char) (ch - 13);
41
42
                   System.out.print(encryptedText);
43
              }
44
45
46
47
48
49
         }
50 }
```