

```

1 package unit_4.in_class;
2
3 public class StringAlgorithms {
4     public static void main(String[] args) {
5
6         // PART I
7         String mySchool = "Fremd Vikings";
8
9         // print every other character of mySchool on
the same line
10        String str2 = "";
11        for (int i=0; i<mySchool.length(); i+=2){
12            str2 += mySchool.charAt(i);
13        }
14        System.out.println(str2);
15
16        // print the String mySchool in reverse (all
characters on the same line)
17        String rev = "";
18        for (int i = mySchool.length()-1; i>=0; i--){
19            rev += mySchool.charAt(i);
20        }
21        System.out.println(rev);
22
23
24
25
26        /* PART II
27           Given the String animal, print the output
such that the first line shows
28           the first character, the second line shows
the second character, and so on
29
30           Ex: If animal = "monkey" then the output
would be:
31           m
32           mo
33           mon
34           monk
35           monke
36           monkey

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37      */
38      String animal = "monkey";
39      String result = "";
40      for (int x = 0; x<animal.length(); x++){
41          for (int y = 0; y<x+1; y++){
42              result += animal.charAt(y);
43          }
44          result += "\n";
45      }
46      System.out.println(result);
47
48
49
50
51      // PART III
52      String phrase = "Mary had a little lamb,
53      little lamb, little lamb. ";
54      phrase += "Mary had a little lamb, its fleece
55      was white as snow";
56
57      // Print the amount of times the word "little
58      " appears within phrase?
59      int num = 0;
60      String out = phrase;
61      int x = out.indexOf("little");
62      for (int i = 0; i < out.length(); i++){
63          if (x == i){
64              num += 1;
65          }
66          x = out.indexOf("little", i);
67      }
68      System.out.println(num);
69      // create a new String, or modify the
70      existing String, that removes
71      // the word "little" entirely
72      System.out.println("The new string is: ");
73      System.out.println(phrase.replace("little ",
74      ""));

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73          // create a new String (based on phrase), or
           modify the existing String,
74          // that replaces the word "little" with the
           word "BIG"
75          System.out.println("The new string is: ");
76          System.out.println(phrase.replace("little",
           "BIG"));
77
78
79
80      }
81 }
82
```