



EXERCISE: Revision STIA1123 –PROGRAMMING II

1. Fill in the blanks in the program below as follows:
 - (a) declare the variable `town` as a reference to a `String` object and initialize it to "UUM Sintok".
 - (b) write an assignment statement that invokes the `length` method of the `String` class to find the length of the `college` `String` object and assigns the result to the `stringLength` variable
 - (c) complete the assignment statement so that `change1` contains the same characters as `college` but all in upper case
 - (d) complete the assignment statement so that `change2` is the same as `change1` except all capital O's are replaced with the asterisk (*) character.
 - (e) complete the assignment statement so that `change3` is the concatenation of `college` and `town` (use the `concat` method of the `String` class rather than the + operator)

```
// *****
// StringExercise.java
//
// Play with String objects
// *****
public class StringExercise
{
    public static void main (String[] args)
    {
        String college = new String ("College of Arts and Sciences");
        _____; // part (a)
        int stringLength;
        String change1, change2, change3;
        _____; // part (b)
        System.out.println (college + " contains " + stringLength + "
characters.");
        change1 = _____; // part (c)
        System.out.println ("The string is all in upper case: " + change1);
        change2 = _____; // part (d)
        System.out.println ("All capital O's are replaced with the asterisk
character: " + change2);
        change3 = _____; // part (e)
        System.out.println ("The final string is " + change3);
    }
}
```

2. Write a program called "FunnyString" that asks the user to enter a favourite color, food, animal and the first name of a friend. Use a `Scanner` object and read one thing per line. The program should then print the following: For example if the user entered blue for color, burger for food, cat for the animal and Jack for the friend the output will be:

I had a dream that Jack ate a blue cat and said it tasted like burger!

3. Write a program that read a string for a date in the format day/month/year and displays it as in the format day.month.year. For example if the input is 13/09/18 the output should be 13.09.18 .

Hint: Search in the class `String` for the appropriate method to solve this problem.

4. Write a program that reads a four-digit number (such 2018) as a `String` and then display it one digit per line like so:

2
0
1
8

(Use `charAt()` method from `String`, Think about the right type for the variables you use).

Next, print the sum of the digits.

Hint: Use `Integer.parseInt()` to convert digits to integers.