FCLD - Assignment 1

The Lizard programming language is a Python-like language:

```
type declaration needed
indentation still matters
len(x) -> x.length()
print(x) -> display(x)
* -> prod
% -> mod
/ -> div
!= -> not
```

casting like x.toString() or x.toInt()

- already implemented inverse with .reverse()

Problem 1 - Bubble Sort

Problem 2 - Largest Prime Divisor of a Number

```
int n, largest_prime, i
n=87
largest_prime = -1
    i = 2
    while i prod i <= n:
        while n mod i == 0:
        largest_prime = i
        n = n div i
        i = i + 1
    if n > 1:
        largest_prime = n
display(largest_prime)
```

Problem 3 - Check Sum of Digits of N is palindrome

```
int num, sum, temp
string s, s_rev
num = 56
sum = 0

while num not 0:
    temp = num % 10
    sum = sum+temp
    num = num/10

s = sum.toString()
s_rev = string.reverse()

if s == s_rev:
    display("Yes")
else:
    display("No")
```

Problem 4 [wrong] - Sum of numbers from 1 to N which are divisible by 3 or 4

```
int n
n = 100
sum = 0

for i in range(1, n+1):
    if i mod 3 == 0 or i mod 4 == 0:
        sum += i
print(sum)

Issues:
* sum is not declared
* print instead of display
```