

CS 610

Thu. 4 Oct 2018.

while (intdiv != 0) {

 r = intdiv % 2;

 result = r + result

 ndigits += 1

 if (ndigits % 4 == 0) result = " " + result

} while (ndigits < 8) result = 0 + result

0 1 2 3 4 5 6 7 8 9

Sometimes need quick coding
to see the big picture

But afterwards

we should rewrite the code
in a more efficient & elegant way

REFACTORING

HEX2DEC

Hint:

var hexd = "0123456789ABCDEF"

Example
User input = "3F" ^{*i*} loop for *i* From end input to begin

user input [0]

user input [1]

i = 0
while i < 16

if input(*i*) == hexd[i]
result += i * 16^{*i*}

$p = \text{length input} - i$

Concatenation

```
var str1 = "hello"
```

```
var str2 = "John"
```

```
var msg = str1 + " " + str2
```

```
str[i]
```