QND Computer Science Day 9

Mark Schmidt

Recap

- Integers
- Floats
- Calculator Project

if / else if / else

- Ask the user for an operation
- Add
- Subtract
- Multiply
- Divide
- Use else to handle error!

Improvements!

- String interpolation
- if let

String Interpolation

- A fancy name for a simple thing
- Write "Sum is " + String(sum) is annoying
- Programmers are lazy!
- Insert code inside a string

```
let sum = a + b
print("Sum is " + String(sum))
// Same as
print("Sum is \((sum)"))
// same as
print("Sum is \((a + b)"))
```

if let

- Handle errors!
- Replaces !

```
if let firstNumber = Int(firstNumberString) {
    // Use firstNumber inside these braces
}
```

Calculator Improvements

- Exponentiation
 - 0 **
- Accept "+" or "add"
 - o use ||
- What happens if we divide by zero?
 - use nested if/else
- Use String Interpolation "The sum is \((sum)\)"
- Invalid numbers
 - Use if let