FIT2102
Programming Paradigms
Tutorial 2

Simulating a digital circuit

MONASH
University

Anonymous Functions

```javascript
function hi(person) {
    console.log('hello ' + person)
}
```

```javascript
const hi = function(person) {
    console.log('hello ' + person)
}
```

```javascript
['tim', 'sally', 'anne'].forEach(hi)
> "hello tim"
> "hello sally"
> "hello anne"
```

- Named function

- Anonymous function assigned to a variable

- Anonymous function passed to another function

Arrow Function Syntax

```
function(x) { return <expression> }
```

Is (almost) equivalent to:

```
x => <expression>
```

Arrow functions can have more than one parameter:

```
function(a, b) { return <expression> }
(a, b) => <expression>
```

Closures

A function and the set of variables it accesses
from its enclosing scope is called a *closure*

```
function makeAdder(x) {
    return function(y) {
        return y+x;
    }
}
let addNine = makeAdder(9)
addNine(10)
> 19
addNine(1)
> 10
```

or

```
const makeAdder = x => y => y+x;




makeAdder(9)(10)
> 19
```