## Beginner C++

**Data Types** 

int	Whole numbers
float	Decimal numbers
double	Double precision decimals
	(used for money)
char	Single characters (denoted
	by ' ')
string	String of characters (denoted
	by " ")
void	Function type for use if a
	function does not return a
	value

**Operators** 

Operators	
+	Adds two values
-	Subtracts two values
=	Assigns a value
<<	Insertion into an object
>>	Extraction from an object
++	Increments a number* (unary)
	Decrements a number* (unary)
%	Modulus, gives the remainder of
	division of two numbers
==	Tests equivalency
	Or, evaluates to true if either side is
	true
&&	And, evaluates to true if both sides
	are true

<sup>\*</sup> Happens before other operations if placed before a variable, or after all other operations if placed on the end

## If Statement

```
if (condition1) {
    code1;
} else if (condition2) {
    code2;
} else {
    code3;
                 A logical statement to be
 condition
   1 & 2
                         evaluated
                   Code to be run if the
   code1
                     condition1 is true
               Code to be run if condition1 is
   code2
                 false but condition2 is true
                 Code to be run if all other
   code3
                    conditions are false
```

## Loops

## **Functions**

```
type name(parameters) {
    code;
    return data;
}

type Function's return type
parameters Variables to be sent to the function
    code Code to be run inside function
    data Data to be returned by the function
```