

"1" and "2"

## **Boolean data types**

Holds a single binary value - True or False.



## What are the 3 Main Programming Constructs?

- Iteration repeating or looping program instructions
- Sequence following instructions one after another in the order they are written
- Selection using a question to decide if code is to be following or not.

## **Example of a Scratch Sequence**

A sequence is when two or more blocks are connected together



- Scratch will execute the instructions in order starting with;
- ✓ set the direction to 0 first,
- $\checkmark$  then set the speed to 0,
- ✓ then erase all the pen marks
- $\checkmark$  and finally put the pen in the down position.

# Example of a Scratch Iteration

#### forever is an iteration control command



It repeats the move block many times.

Also

- repeat
- repeat until

## Example of a Scratch Selection

if then is an example of selection in code



Selection uses a question

#### is speed greater than 1?

to decide whether to decrease the speed variable by 1

**if then** can have an elsepart for when the answer to the question is not met.

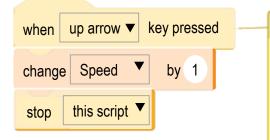


## **Program Comments**

Programmer-readable explanation or annotation in the code of a computer program.

They are added to make code easier for humans to understand and are generally ignored by the computer.

It is good practice to write comments in your code to make it more readable.



A comment is linked to a block of code.

