There are four key programming ideas:

- 1. algorithms
- 2. sequence
- 3. selection
- 4. repetition

An **algorithm** is a set of instructions to complete a task

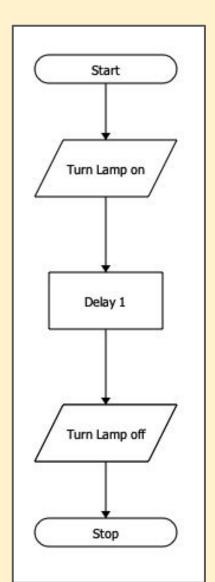
We use algorithms to **plan** instructions before writing computer code

- it makes is easy to check ideas for how a program might work
- it makes writing computer code quicker and easier
- it helps reduce mistakes in the code

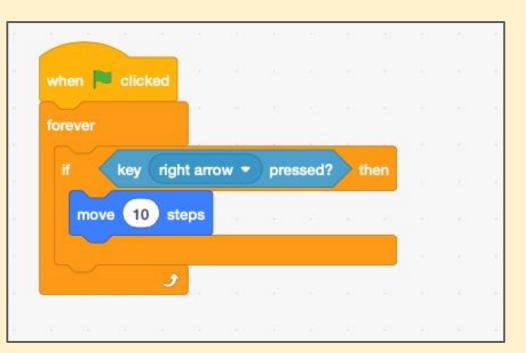
One way of writing algorithms is to use **flowcharts**

It's important to get instructions in the right order. This is called **sequence**

Sequence means getting things in the right order

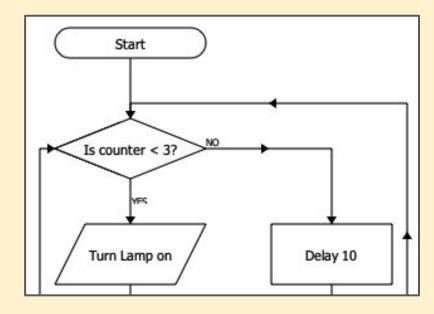


Sometimes we need to do a section of code more than once This is called repetition **Repetition** is repeating something



The forever block in this Scratch program keeps doing the section of code until the program stops

Sometimes we need to choose which section of code to do next This is called **selection Selection** is choosing what to do next something in a program



The diamond shaped symbol chooses when to turn the lamp on

- Start a new PowerPoint presentation
- Title: Micro:bit Programming
- On the **first slide** write down the meanings of the four key ideas:
- 1. algorithm
- 2. sequence
- 3. selection
- 4. repetition

Save your PowerPoint in your OneDrive and then share it with me

Use the learning framework from today's lesson to help!