Micro:bit Programming - sequencing

To **program** computers we need to create **code**.

The code gives the **instructions** to the computer to do something

Code needs to be in the right order - otherwise the instructions will get muddled
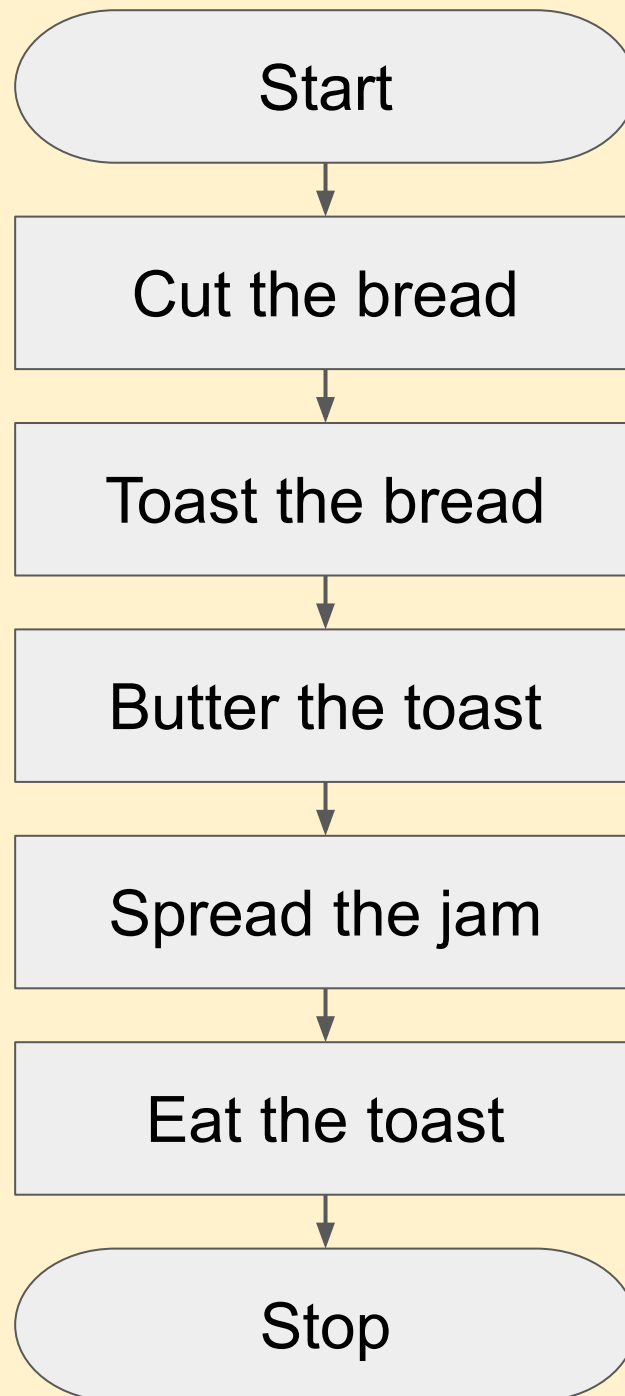
This is called **sequence**

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A set of instructions is called an **algorithm**

1. Start

2. Spread the jam

3. Slice the bread

4. Toast the bread

5. Eat the toast

6. Butter the toast

7. Stop

An **algorithm** can try and deal with each individual step in full detail or it can **simplify** the steps to make them easier for a human to understand

This is called **abstraction**

Start

Cut the bread

Toast the bread

Butter the toast

Spread the jam

Eat the toast

Stop

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What **algorithm** would you write for "getting ready for school"?

Remember, an algorithm is just a sequence of instructions to complete a task or solve a problem

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Algorithms are used in computing to plan how a computer program will be written.

Having a plan makes it a lot easier to write the program.

It helps stop errors and mistakes in the computer code.

It makes it quicker to complete the program.

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Start writing a **report** which answers these questions:

In **Word - Title: Algorithm Report**

- What is an **algorithm**?

- Why are algorithms used in computing?

- Why is it important that an algorithm is in the right order?

- Write down a simple algorithm

Use sentences rather than just answering the questions