Computing to Program, Monitor and Control – Safety

Vocabulary

Micro:bit	a small computer designed by the BBC for use in computer education in the UK
input	data entered into a program
output	any information or effect that a program produces
processor	receives inputs from the computer and produces outputs
coding	the process of designing and building programs on a computer to perform an action
code blocks	a visual representation for a section of code that performs a job; snapped together to build a program
algorithm	a set of instructions to be followed to complete a given task or solve a problem
program	a sequence of instructions used by a computer
loop	a repeat in a set of code so the action happens again and again
variable	used to store data in computer programs e.g. time remaining, distance travelled

Parts of a Micro:Bit

USB connector — Microphone indicator — Radio antenna — Microphone — Reset and power button

Touch logo — Battery socket

25 LED lights — USB, BLE ANTENNA, MICROPHONE, RESET I/O, BATTERY — Processor

2 buttons — SPEAKER, PROCESSOR, ACCELEROMETER, COMPASS, PINS — Speaker

Pin-0   Pin-1   Pin-2   Pin-3V   Pin-GND — Edge connector for accessories — Compass and accelerometer
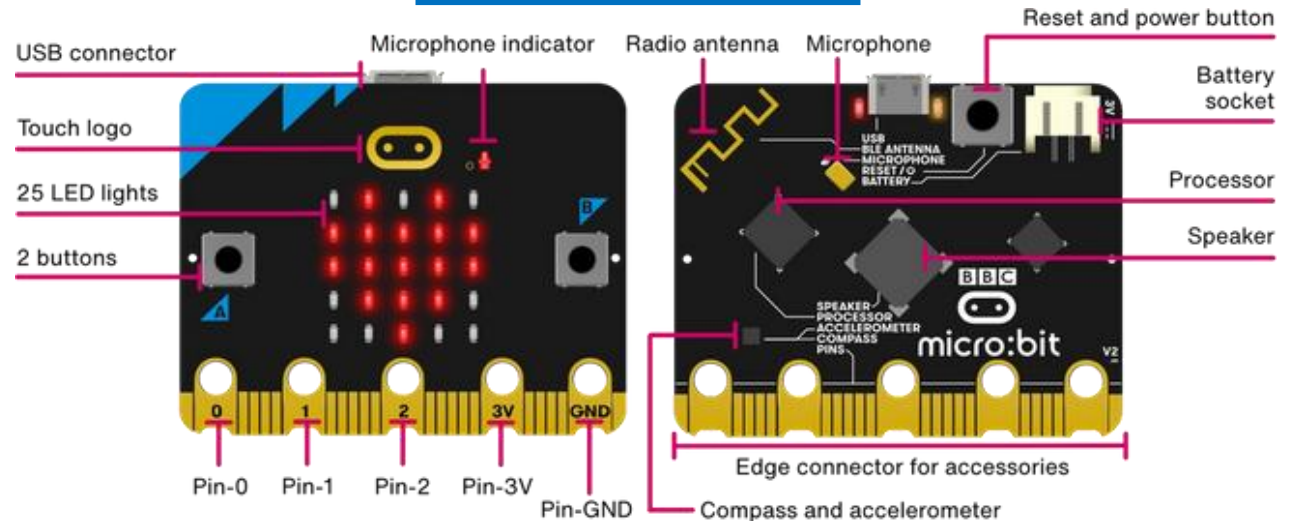
Conditional Commands

In coding, conditional commands are instructions that are only followed when the conditions are just right.

They use the pattern:

IF something is true, THEN do this.

Famous Person

Guglielmo Marconi

He was an Italian electrical engineer, inventor and politician.

He created a wireless telegraph (1896).

This meant that messages could be sent over long distances more easily.

He won the Nobel Prize for Physics in 1909.

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