Cybersecurity Programming with BBC micro: bit
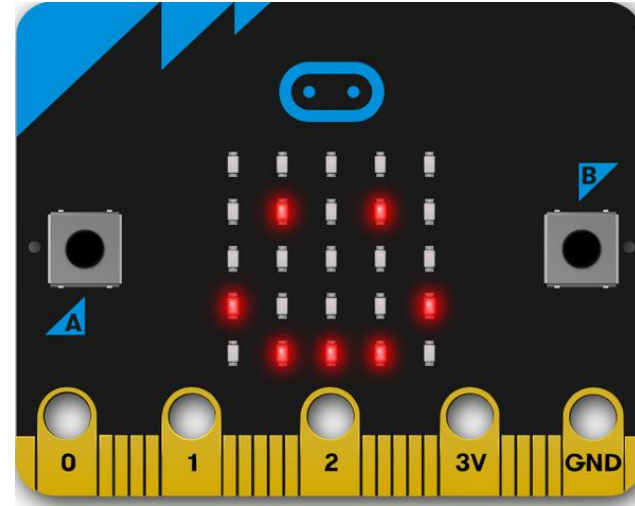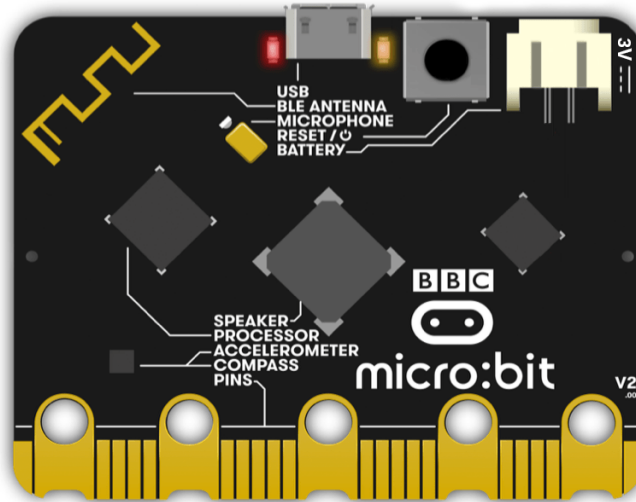
CS Athena Swan Outreach Lead

Nadine Aburumman

Innovative Inclusive Diverse

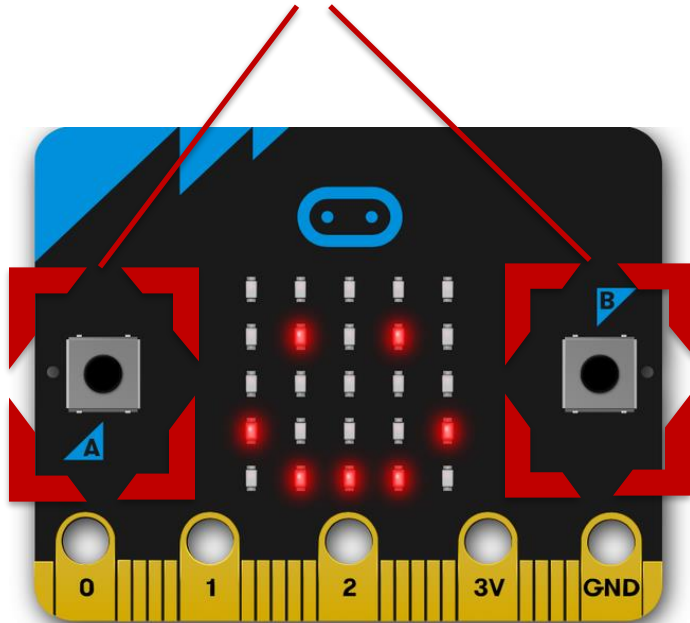# Beat the Hacker Workshop: Cybersecurity Programming with BBC micro: bit

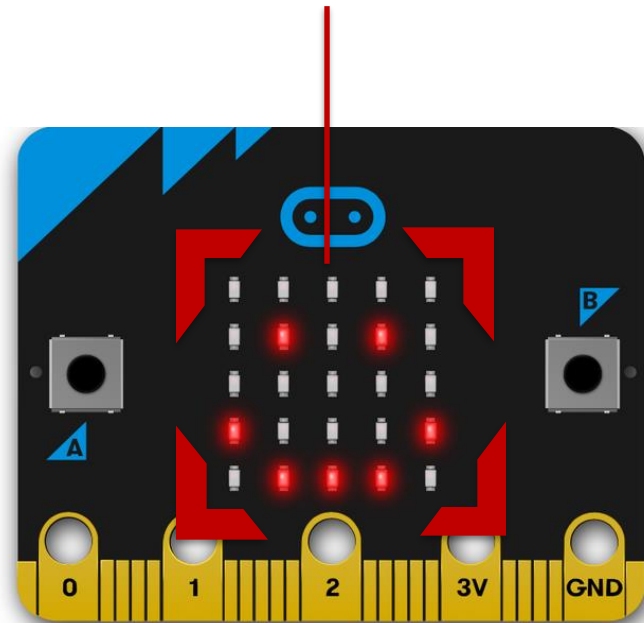# Hardware Equipment

micro:bit

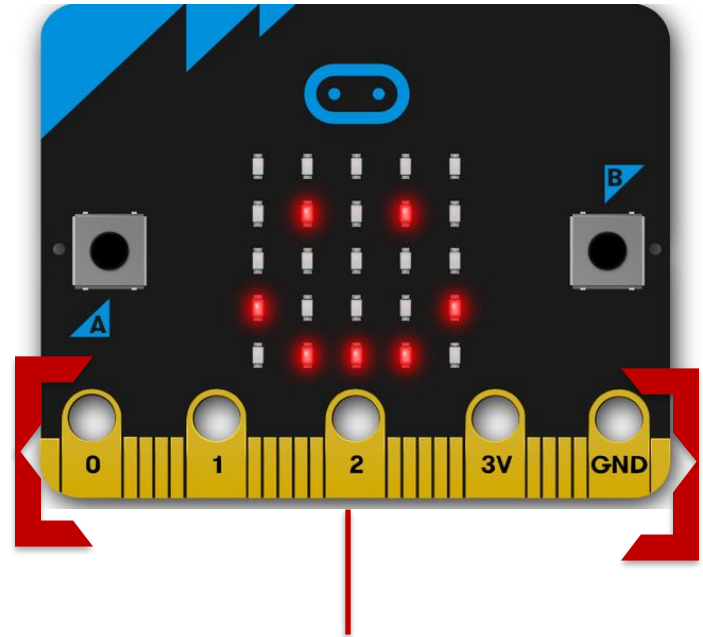a pocket-sized computer that lets you be creative with digital technologies
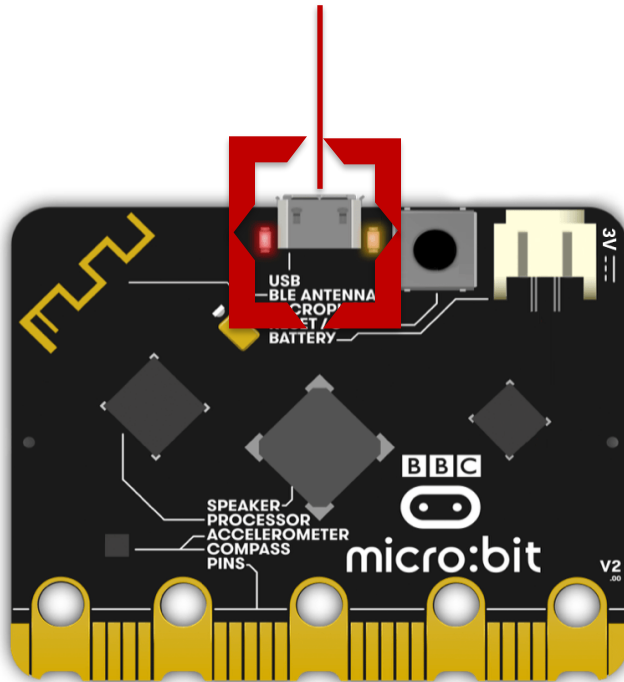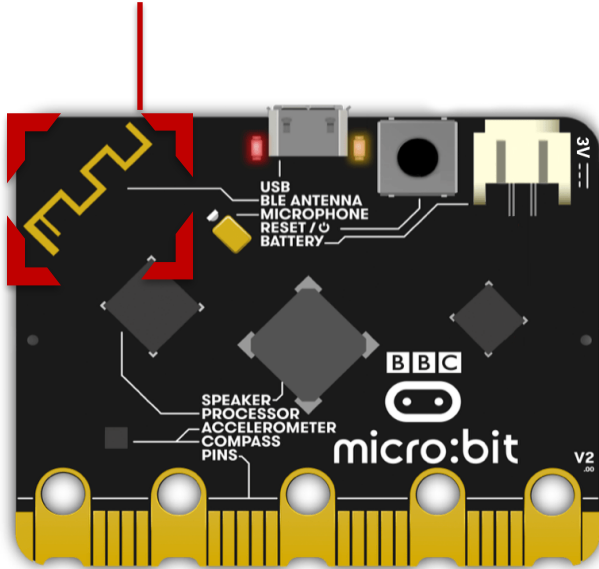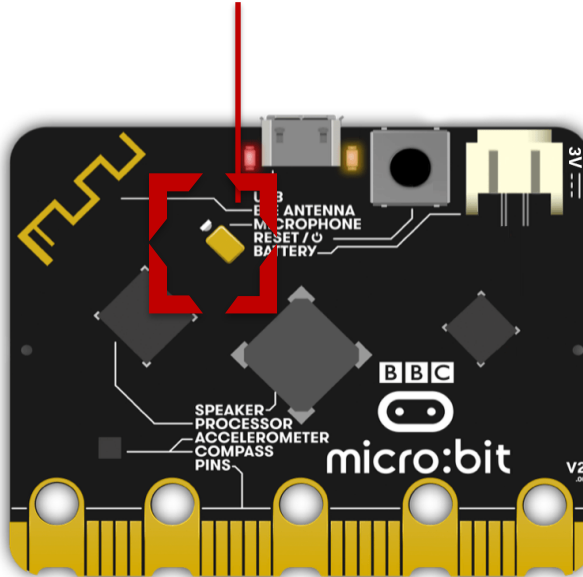
2 programmable buttons

25 LEDs

USB connector

- **20 gold tab edge pins**
- **5 ring connectors**
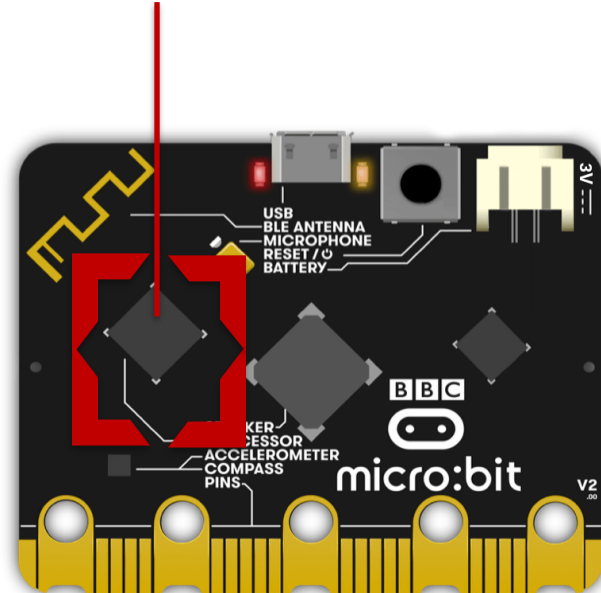- **3 for digital/analogue input/output**
- **2 for power**

Radio Antenna

Microphone

Processor

Software

Microsoft MakeCode

an online learn-to-code platform

https://makecode.microbit.org/
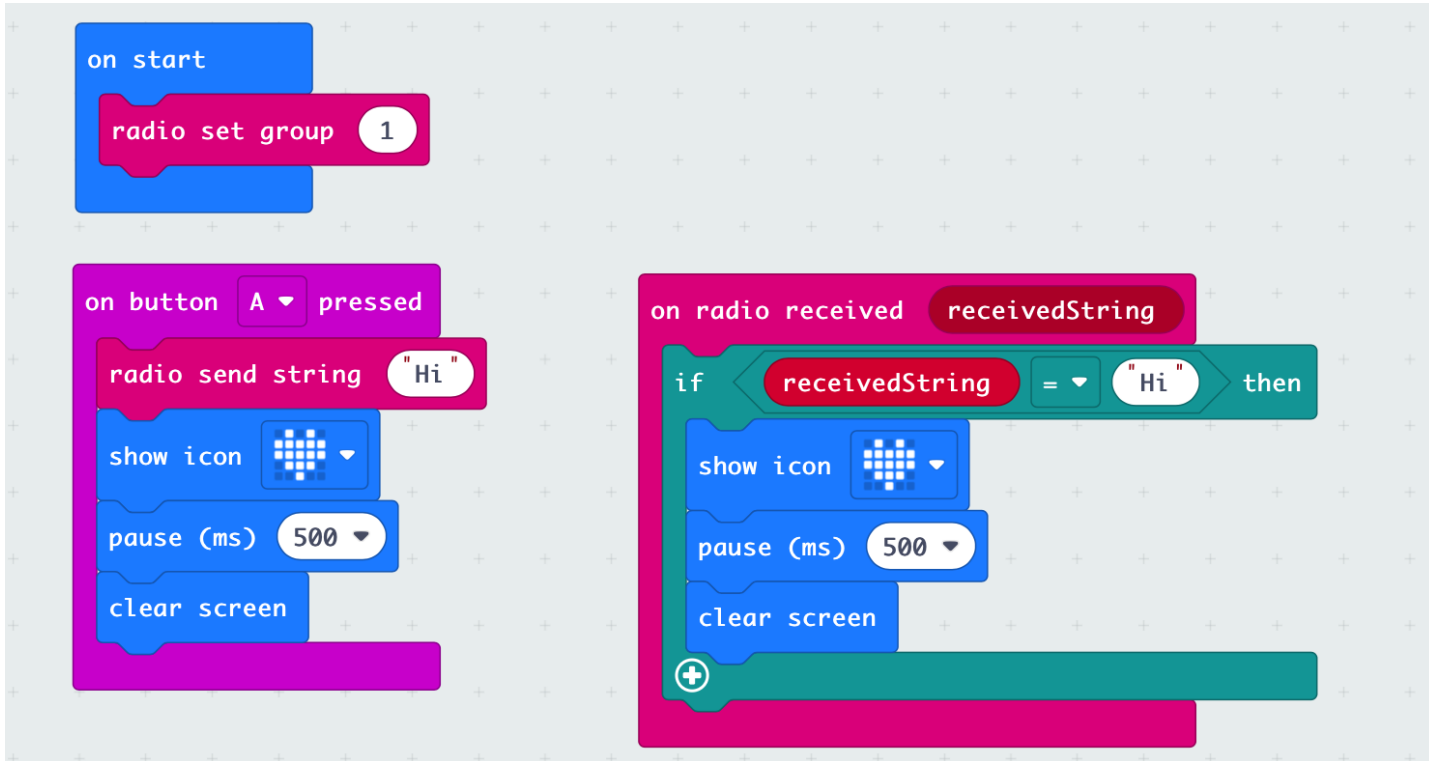
Sending messages via radio (micro: bit)

Beat the Hacker Workshop

Year 2025

Cyber Command is the government agency in-charge of all cyber security matters

Powerful system capable of taking over and shutting down any computerised system

Beat the Hacker Workshop

John Wick, ex- Cyber Command security researcher

Installed a back door into the Cyber Command system

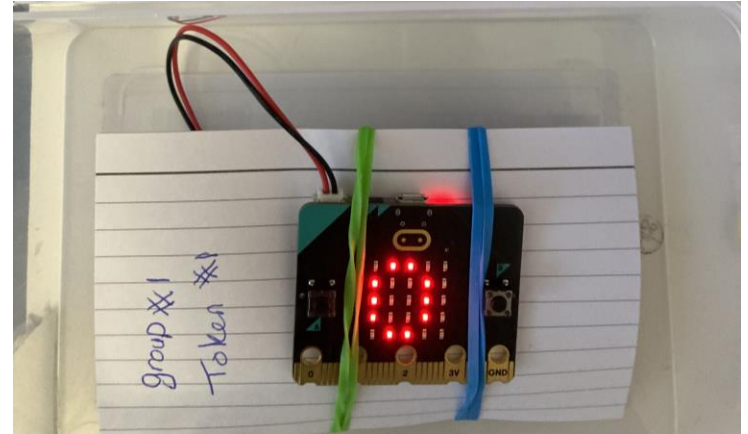Triggered a self-destruct script that will activate in 45 mins

John Wick
(Photo taken after his arrest)

Beat the Hacker Workshop

Left behind 2 clues

https://nadineab.github.io/TasterDayCS/c9428

Token

Any Questions?

Brunel
University
London

Athena
SWAN
Bronze Award

GENDER CHARTER