"Reach to the Top" Button Project

By Sam Kyataka

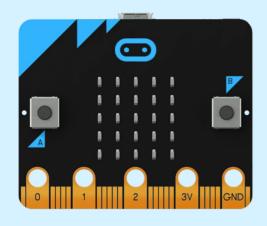# What is the "Reach to the Top" club?

- Trivia game-show like club e.g., Jeopardy, Family Feud.

- 4 to 5 participants per team.

- Two separate teams.

- Hosts other schools for competitions.
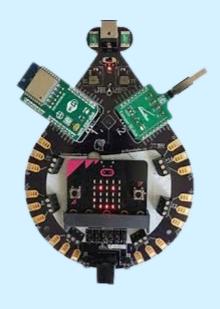
The Project:

- To make wireless buttons (answer buzzers) for the "Reach to the top" club:

  - Create wireless buttons using micro bits.

  - Create an efficient network system for the buttons.

  - Create code for the buttons' functionality.

  - Design a model for the container that holds the micro bit and the batteries.

Materials and Resources
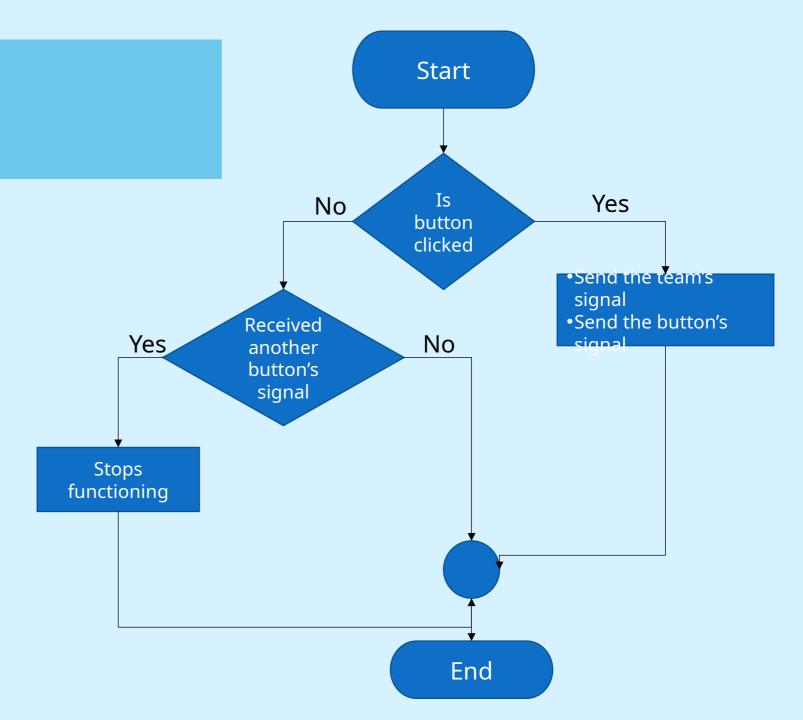
Micro bits

Bboard

LED lights

Button
s

Website: https://code.brilliantlabs.ca/

Project's Flow Charts:

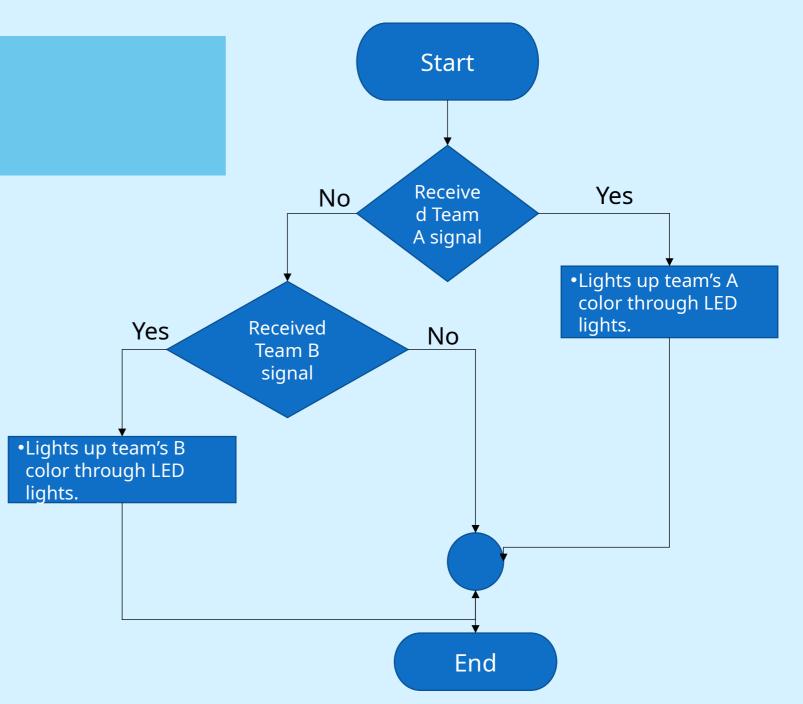- Participant's button:

  - Each button is assigned its own signal number.

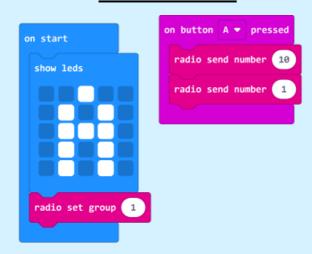 - Each team has its own signal number.
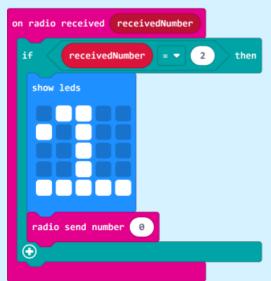
Project's Flow Charts:

- Bboard:
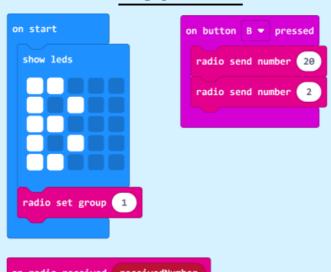 - Indicates which team clicked their buttons first.

Start

Received Team A signal

No → Received Team B signal

Yes → •Lights up team's A color through LED lights.

Yes → •Lights up team's B color through LED lights.

No →

End

Sample Code testing the radio function:

- **Team A**

- **Team B**

- **Bboard**