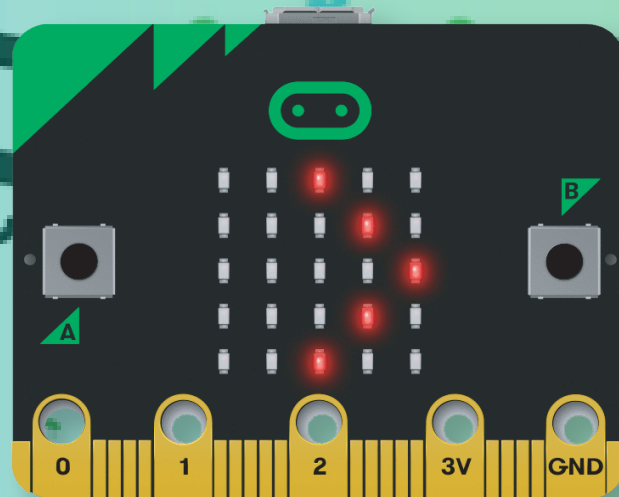


micro:bit

Basic Training



Week 1:

Getting Started With micro:bit

- Purpose of introducing micro:bit.
Brief introduction-Origin of micro:bit.
- Safety instructions while using micro:bit.
- Features and applications.
- Physical Specifications.
- Micro:bit programming languages- Block Programming, Python, Java.
- Introduction to Editors used for programming the micro:bit.

Week 2:

Study of Physical Structure

- Pinouts- Pin Specification.
- Connection Set-Up between micro:bit and computer.
- Inbuilt sensors:
 - Temperature sensor
 - Accelerometer
 - Compass
- Wireless communication:
 - Radio communication
 - Bluetooth communication

Week 3:

Introduction to Block Programming & Editor

- Introduction to block programming.
- Introduction to the editor (Makecode editor).
- Explaining blocks used in the editor.
- Flashing of code in micro:bit.
- Hands-on makecode editor with some basic examples.

Week 4:

Study of Physical Computing

Projects will be made by using the following devices:

- Led
- Button
- Buzzer
- RGB Led
- Servo
- Dc motor
- Gesture

Week 5:

Examples of Wireless Communication

- Projects on radio communication and Bluetooth.
- Projects and Games by using micro:bit.

Miscellaneous

- Problem sessions/queries about micro:bit training.