EXPERIMENT 28: ROBOT USING MOBILE ARROWS

Objective: The objective of this experiment is to control the Chelonia Bot using the "Arduino Bluetooth Connector" mobile app. Use the HC-05 Bluetooth module to control the robot to move forward, backward, left, and right wirelessly from a smartphone app using arrow keys

Mobile Application Setup:

Follow the link for the Mobile application setup the Robot using the Mobile arrows.

- **Bluetooth Connectivity:**
  - Enable Bluetooth on your mobile device.
  - Pair your mobile device with the Chelonia's Bluetooth module.
- **Hardware Setup:** Connect the hardware as follows to ensure proper functionality.
- **Motor Control Pins:**
  - Connect Motor 1:
    - Direction input 1 (IN1): Connect to pin 8
    - Direction input 2 (IN2): Connect to pin 9
  - Connect Motor 2:
    - Direction input 1 (IN3): Connect to pin 10
    - Direction input 2 (IN4): Connect to pin 11
- Ensure the Bluetooth module (HC-05) is properly connected to the Arduino (VCC and GND). Connect its RX to TX and TX to RX. For detailed guidance on connecting the HC-05 Bluetooth module to your Arduino, please refer to the following link: HC-05 and Arduino Connection.

Code Example: **Chelonia control using mobile**
  - **F:** Move forward
  - **B:** Move backward
  - **L:** Turn left
  - **R:** Turn right
  - **S:** Stop

Note: Connect the RX and TX pins of HC-05 to the TX and RX pins of Arduino after uploading the code.