

## Task 1: Robot Car

### 1. On **start**

- Set the radio group to \_\_\_\_.

*Set up the remote control.*

### 2. On **tilt left**:

- Send a radio string "left".
- Pause for 1 second (1000 ms).
- Send a radio string "stop".

### 3. On **tilt right**:

- Send a radio string "right".
- Pause for 1 second (1000 ms).
- Send a radio string "stop".

### 4. On **button A pressed**:

- Send a radio string "front".
- Pause for 1 second (1000 ms).
- Send a radio string "stop".

### 5. On **button B pressed**:

- Send a radio string "back".
- Pause for 1 second (1000 ms).
- Send a radio string "stop".

*Set up motors of car wheels.*

### 6. On **radio received receivedString**:

- Show a smiley face icon.
- If receivedString = "left":
  - Servo write pin P0 to 180.
  - Servo write pin P1 to 180.
- If receivedString = "right":
  - Servo write pin P0 to 0.
  - Servo write pin P1 to 0.
- If receivedString = "front":
  - Servo write pin P0 to 0.
  - Servo write pin P1 to 180.
- If receivedString = "back":
  - Servo write pin P0 to 180.
  - Servo write pin P1 to 0.
- If receivedString = "stop":
  - Servo write pin P0 to 90.
  - Servo write pin P1 to 90.