**Aurdino nrf communication:**

**Transmitter Code**

1. /\*
2. \* Arduino Wireless Communication Tutorial
3. \* Example 2 - Transmitter Code
4. \*
5. \* by Dejan Nedelkovski, www.HowToMechatronics.com
6. \*
7. \* Library: TMRh20/RF24, https://github.com/tmrh20/RF24/
8. \*/
9. #include <SPI.h>
10. #include <nRF24L01.h>
11. #include <RF24.h>
12. #define led 12
13. RF24 radio(7, 8); // CE, CSN
14. **const** byte addresses[][6] = {"00001", "00002"};
15. boolean buttonState = 0;
16. **void** setup() {
17. pinMode(12, OUTPUT);
18. radio.begin();
19. radio.openWritingPipe(addresses[1]); // 00002
20. radio.openReadingPipe(1, addresses[0]); // 00001
21. radio.setPALevel(RF24\_PA\_MIN);
22. }
23. **void** loop() {
24. delay(5);
25. radio.stopListening();
26. **int** potValue = analogRead(A0);
27. **int** angleValue = map(potValue, 0, 1023, 0, 180);
28. radio.write(&angleValue, **sizeof**(angleValue));
29. delay(5);
30. radio.startListening();
31. **while** (!radio.available());
32. radio.read(&buttonState, **sizeof**(buttonState));
33. **if** (buttonState == HIGH) {
34. digitalWrite(led, HIGH);
35. }
36. **else** {
37. digitalWrite(led, LOW);
38. }
39. }

**Receiver Code**

1. /\*
2. \* Arduino Wireless Communication Tutorial
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5. \* by Dejan Nedelkovski, www.HowToMechatronics.com
6. \*
7. \* Library: TMRh20/RF24, https://github.com/tmrh20/RF24/
8. \*/
9. #include <SPI.h>
10. #include <nRF24L01.h>
11. #include <RF24.h>
12. #include <Servo.h>
13. #define button 4
14. RF24 radio(7, 8); // CE, CSN
15. **const** byte addresses[][6] = {"00001", "00002"};
16. Servo myServo;
17. boolean buttonState = 0;
18. **void** setup() {
19. pinMode(button, INPUT);
20. myServo.attach(5);
21. radio.begin();
22. radio.openWritingPipe(addresses[0]); // 00001
23. radio.openReadingPipe(1, addresses[1]); // 00002
24. radio.setPALevel(RF24\_PA\_MIN);
25. }
26. **void** loop() {
27. delay(5);
28. radio.startListening();
29. **if** ( radio.available()) {
30. **while** (radio.available()) {
31. **int** angleV = 0;
32. radio.read(&angleV, **sizeof**(angleV));
33. myServo.write(angleV);
34. }
35. delay(5);
36. radio.stopListening();
37. buttonState = digitalRead(button);
38. radio.write(&buttonState, **sizeof**(buttonState));
39. }
40. }