```
// Motor A connections
int enA = 9;
int in 1 = 8;
int in 2 = 7;
// Motor B connections
int enB = 6;
int in 3 = 5;
int in 4 = 4;
char commandA; // Variable to store the command for motor A
char commandB; // Variable to store the command for motor B
void setup() {
 Serial.begin(9600); // Start serial communication
 // Set all the motor control pins to outputs
 pinMode(enA, OUTPUT);
 pinMode(enB, OUTPUT);
 pinMode(in1, OUTPUT);
 pinMode(in2, OUTPUT);
```

```
pinMode(in3, OUTPUT);
pinMode(in4, OUTPUT);
}
void loop() {
 if(Serial.available() > 1){ // Check if at least two characters are available to read
  commandA = Serial.read(); // Read the command for motor A
  commandB = Serial.read(); // Read the command for motor B
  // Move motors according to received commands
  moveMotors(commandA, commandB);
void moveMotors(char cmdA, char cmdB){
 // Move motor A
 if(cmdA == 'F'){ // Move motor A forward
  digitalWrite(in1, HIGH);
  digitalWrite(in2, LOW);
```

```
analogWrite(enA, 255); // Adjust speed by changing PWM value (0 to 255)
 } else if(cmdA == 'B'){ // Move motor A backward
  digitalWrite(in1, LOW);
  digitalWrite(in2, HIGH);
  analogWrite(enA, 255); // Adjust speed by changing PWM value (0 to 255)
 } else { // Stop motor A
  digitalWrite(in1, LOW);
  digitalWrite(in2, LOW);
 }
// Move motor B
 if(cmdB == 'F'){ // Move motor B forward
  digitalWrite(in3, HIGH);
  digitalWrite(in4, LOW);
  analogWrite(enB, 255); // Adjust speed by changing PWM value (0 to 255)
 } else if(cmdB == 'B'){ // Move motor B backward
  digitalWrite(in3, LOW);
```

```
digitalWrite(in4, HIGH);
    analogWrite(enB, 255); // Adjust speed by changing PWM value (0 to 255)
} else { // Stop motor B
    digitalWrite(in3, LOW);
    digitalWrite(in4, LOW);
}
```