// Starting of Program

int m1a = 9;

int m1b = 10;

int m2a = 11;

int m2b = 12;

char val;

void setup()

{

pinMode(m1a, OUTPUT); // Digital pin 10 set as output Pin

pinMode(m1b, OUTPUT); // Digital pin 11 set as output Pin

pinMode(m2a, OUTPUT); // Digital pin 12 set as output Pin

pinMode(m2b, OUTPUT); // Digital pin 13 set as output Pin

Serial.begin(9600);

}

void loop()

{

while (Serial.available() > 0)

{

val = Serial.read();

Serial.println(val);

}

if( val == 'f') // Forward

{

digitalWrite(m1a, HIGH);

digitalWrite(m1b, LOW);

digitalWrite(m2a, HIGH);

digitalWrite(m2b, LOW);

delay(5000);

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

else if(val == 'b') // Backward

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, HIGH);

digitalWrite(m2a, LOW);

digitalWrite(m2b, HIGH);

delay(5000);

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

else if(val == 'l') //Left

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, HIGH);

digitalWrite(m2b, LOW);

delay(3000);

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

else if(val == 'r') //Right

{

digitalWrite(m1a, HIGH);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

delay(3000);

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

else if(val == 's') //Stop

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

}