Appendix

/\*

simple LED test

\*/

char val; // variable to receive data from the serial port

int motor1 = 13; // motor 1

int motor2 = 8; //motor 2

int grass = 7; // grass cutter motor

void setup()

{

pinMode(12, OUTPUT);

pinMode(11, OUTPUT);

pinMode(10, OUTPUT);

pinMode(9, OUTPUT);

pinMode(8, OUTPUT); // grass blade

Serial.begin(9600); // start serial communication at 115200bps

}

void loop()

{

if( Serial.available() ) // if data is available to read

{

}

val = Serial.read(); // read it and store it in 'val'

if( val == 'B' ) // Grass Cutter Blade Start

{

digitalWrite(8, HIGH);

}

if( val == 'b' ) // Grass Cutter Blade Start

{

digitalWrite(8, LOW);

}

if( val == 'U' ) // go up

{

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

//

}

if( val == 'u' ) // go up

{

digitalWrite(12, LOW);

digitalWrite(11, LOW);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

//

}

if( val == 'D' ) // go down

{

digitalWrite(12, LOW);

digitalWrite(11, HIGH);

digitalWrite(10, LOW);

digitalWrite(9, HIGH);

}

if( val == 'd' ) // go down

{

digitalWrite(12, LOW);

digitalWrite(11,LOW);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

}

if( val == 'S' ) // go down

{

digitalWrite(12, LOW);

digitalWrite(11,LOW);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

}

if( val == 'R' ) // go Left

{

analogWrite(10, 150);

analogWrite(9, 0);

analogWrite(12, 0);

analogWrite (11, 0);

}

if( val == 'l' ) // go left

{

digitalWrite(12, LOW);

digitalWrite(11,LOW);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

}

if( val == 'L' ) // go Right

{

digitalWrite(12, 130);

digitalWrite(11, 0);

digitalWrite(10, 0);

digitalWrite(9, 0);

}

if( val == 'r' ) // go down

{

digitalWrite(12, LOW);

digitalWrite(11,LOW);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

}

if( val == 'x' ) // 1 meter

{

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay(1100);

digitalWrite(12, LOW);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay (1300);

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay(1100);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

delay (1200);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

digitalWrite(12, LOW);

digitalWrite(11, LOW);

//N.B it's round 31 time for 1 meter.(so, need to copy paste 31 time)

}

if( val == 'y' ) // 2 meter

{

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay(2000);

digitalWrite(12, LOW);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay (1300);

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay(2000);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

delay (1200);

//N.B it's round 31 time for 2 meter.(so, need to copy paste 62 time)

}

if( val == 'z' ) // 3 meter

{

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay(3000);

digitalWrite(12, LOW);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay (1300);

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

digitalWrite(9, LOW);

delay(30000);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

delay (1200);

digitalWrite(12, LOW);

digitalWrite(11, LOW);

digitalWrite(10, LOW);

digitalWrite(9, LOW);

}}