CODE FOR IMPLEMENTING ARDUINO BLUETOOTH CONTROL

#define LED\_PIN1 4

#define LED\_PIN2 5

#define LED\_PIN3 6

#define LED\_PIN4 7

#define LED\_PIN5 8

#define LED\_PIN6 9

#define LED\_PIN7 10

#define LED\_PIN8 11

int inByte = 0;

boolean status\_bluetooth;

void setup()

{

Serial.begin(9600);

pinMode(LED\_PIN1, OUTPUT);

pinMode(LED\_PIN2, OUTPUT);

pinMode(LED\_PIN3, OUTPUT);

pinMode(LED\_PIN4, OUTPUT);

pinMode(LED\_PIN5, OUTPUT);

pinMode(LED\_PIN6, OUTPUT);

pinMode(LED\_PIN7, OUTPUT);

pinMode(LED\_PIN8, OUTPUT);

digitalWrite(LED\_PIN1, LOW);

digitalWrite(LED\_PIN2, LOW);

digitalWrite(LED\_PIN3, LOW);

digitalWrite(LED\_PIN4, LOW);

digitalWrite(LED\_PIN5, LOW);

digitalWrite(LED\_PIN6, LOW);

digitalWrite(LED\_PIN7, LOW);

digitalWrite(LED\_PIN8, LOW);

status\_bluetooth = true;

}

void loop()

{

if (Serial.available() > 0)

{

inByte = Serial.read();

if(inByte == 'A')

{ digitalWrite(LED\_PIN1, HIGH);

Serial.print('A', BYTE);

inByte = 0;

}

if(inByte == 'a')

{ digitalWrite(LED\_PIN1, LOW);

Serial.print('a', BYTE);

inByte = 0;

}

if(inByte == 'B')

{ digitalWrite(LED\_PIN2, HIGH);

Serial.print('B', BYTE);

inByte = 0;

}

if(inByte == 'b')

{ digitalWrite(LED\_PIN2, LOW);

Serial.print('b', BYTE);

inByte = 0;

}

if(inByte == 'C')

{ digitalWrite(LED\_PIN3, HIGH);

Serial.print('C', BYTE);

inByte = 0;

}

if(inByte == 'c')

{ digitalWrite(LED\_PIN3, LOW);

Serial.print('c', BYTE);

inByte = 0;

}

if(inByte == 'D')

{ digitalWrite(LED\_PIN4, HIGH);

Serial.print('D', BYTE);

inByte = 0;

}

if(inByte == 'd')

{ digitalWrite(LED\_PIN4, LOW);

Serial.print('d', BYTE);

inByte = 0;

}

if(inByte == 'E')

{ digitalWrite(LED\_PIN5, HIGH);

Serial.print('E', BYTE);

inByte = 0;

}

if(inByte == 'e')

{ digitalWrite(LED\_PIN5, LOW);

Serial.print('e', BYTE);

inByte = 0;

}

if(inByte == 'F')

{ digitalWrite(LED\_PIN6, HIGH);

Serial.print('F', BYTE);

inByte = 0;

}

if(inByte == 'f')

{ digitalWrite(LED\_PIN6, LOW);

Serial.print('f', BYTE);

inByte = 0;

}

if(inByte == 'G')

{ digitalWrite(LED\_PIN7, HIGH);

Serial.print('G', BYTE);

inByte = 0;

}

if(inByte == 'g')

{ digitalWrite(LED\_PIN7, LOW);

Serial.print('g', BYTE);

inByte = 0;

}

if(inByte == 'H')

{ digitalWrite(LED\_PIN8, HIGH);

Serial.print('H', BYTE);

inByte = 0;

}

if(inByte == 'h')

{ digitalWrite(LED\_PIN8, LOW);

Serial.print('h', BYTE);

inByte = 0;

}

if(inByte == 'S')

{ Serial.print('S', BYTE);

status\_bluetooth = true; }

}

}