**Project Code**

#include<SoftwareSerial.h>

int bulb1 = 8;  
int bulb2 = 9;  
int bulb3 = 10;  
int bulb4 = 11;

SoftwareSerial bt(0,1); /\* (Rx,Tx) \*/

String str;

void setup() {  
bt.begin(9600);  
Serial.begin(9600);

pinMode(bulb1,OUTPUT);  
pinMode(bulb2,OUTPUT);  
pinMode(bulb3,OUTPUT);  
pinMode(bulb4,OUTPUT);

}

void loop() {

if (bt.available())  
{  
str = bt.read();  
Serial.println(str);  
//bulb1  
if(str==”bulb1 on”)  
{  
digitalWrite(bulb1,HIGH);  
Serial.println(“BUlB 1 is ON”);  
}  
else if(str==”bulb1 off”)  
{  
digitalWrite(bulb1,LOW);  
Serial.println(“BUlB 1 is OFF”);  
}  
else  
{  
digitalWrite(bulb1,LOW);  
}  
//bulb2  
if(str==”bulb2 on”)  
{  
digitalWrite(bulb2,HIGH);  
Serial.println(“BUlB 2 is ON”);  
}  
else if(str==”bulb2 off”)  
{  
digitalWrite(bulb2,LOW);  
Serial.println(“BUlB 2 is OFF”);  
}  
else  
{  
digitalWrite(bulb2,LOW);  
}  
////bulb3  
if(str==”bulb3 on”)  
{  
digitalWrite(bulb3,HIGH);  
Serial.println(“BUlB 3 is ON”);  
}  
else if(str==”bulb3 off”)  
{  
digitalWrite(bulb3,LOW);  
Serial.println(“BUlB 3 is OFF”);  
}  
else  
{  
digitalWrite(bulb3,LOW);  
}  
//bulb4  
if(str==”bulb4 on”)  
{  
digitalWrite(bulb4,HIGH);  
Serial.println(“BUlB 4 is ON”);  
}  
else if(str==”bulb4 off”)  
{  
digitalWrite(bulb4,LOW);  
Serial.println(“BUlB 4 is OFF”);  
}  
else  
{  
digitalWrite(bulb4,LOW);  
}

}  
}