

Code for Home Automation System

```
#include <SoftwareSerial.h>
```

```
SoftwareSerial BT(10, 11); //TX, RX respectively
```

```
String device;
```

```
void setup() {
```

```
  BT.begin(9600);
```

```
  Serial.begin(9600);
```

```
  pinMode(3, OUTPUT);
```

```
  pinMode(4, OUTPUT);
```

```
  pinMode(5, OUTPUT);
```

```
}
```

```
//-----//
```

```
void loop() {
```

```
  while (BT.available()){ //Check if there is an available byte to read
```

```
    delay(10); //Delay added to make thing stable
```

```
    char c = BT.read(); //Conduct a serial read
```

```
    device += c; //build the string.
```

```
  }
```

```
  if (device.length() > 0) {
```

```
    Serial.println(device);
```

```
  if(device == "doneon")
```

```
  {
```

```
    digitalWrite(3, HIGH);
```

```
  }
```

```
  else if(device == "doneoff")
```

```
  {
```

```
    digitalWrite(3, LOW);
```

```
  }
```

```
  else if (device == "dtwoon")
```

```
  {
```

```
    digitalWrite (4,HIGH);
```

```
  }
```

```
  else if ( device == "dtwooff")
```

```
  {
```

```
    digitalWrite (4, LOW);
```

```
}  
  
else if (device == "dthreeon")  
{  
    digitalWrite (5, HIGH);  
  
}  
  
else if (device == "dthreeoff")  
{digitalWrite (5, LOW);}   
  
device="";}} //Reset the variable
```