

SMART

HOME

```
#define PIR_0 A0
#define PIR_1 A1
#define PIR_3 A2
#define PIR_4 A3
#define IR_1 A4

#define L1 3
#define L2 4
#define BL1 5
#define BL2 6
#define Door_Alarm 8
#define F1 9
#define F2 10
void setup()
{
    pinMode(PIR_0, INPUT);
    pinMode(PIR_1, INPUT);
    pinMode(IR_1, INPUT);
    pinMode(PIR_3, INPUT);
    pinMode(PIR_4, INPUT);

    pinMode(L1, OUTPUT);
    pinMode(L2, OUTPUT);
    pinMode(F1, OUTPUT);
    pinMode(F2, OUTPUT);
    pinMode(Door_Alarm, OUTPUT);
    pinMode(BL1, OUTPUT);
    pinMode(BL2, OUTPUT);
}
```

```
void loop()
{
  if(digitalRead (PIR_0==HIGH))
  {
    digitalWrite(L1, HIGH);
    digitalWrite(F1, HIGH);
  }
  else
  {
    digitalWrite(L1, LOW);
    digitalWrite(F1, LOW);
  }

  if(digitalRead (PIR_1==HIGH))
  {
    digitalWrite(L2, HIGH);
    digitalWrite(F2, HIGH);
  }
  else
  {
    digitalWrite(L2, LOW);
    digitalWrite(F2, LOW);
  }

  if(digitalRead (IR_1==HIGH))
  {
    digitalWrite(Door_Alarm, LOW);
  }
  else
  {
    digitalWrite(Door_Alarm, HIGH);
  }
}
```

```
if(digitalRead (PIR_3==HIGH))
```

```
{
```

```
    digitalWrite(BL1, HIGH);
```

```
}
```

```
else
```

```
{
```

```
    digitalWrite(BL1, LOW);
```

```
}
```

```
if(digitalRead (PIR_4==HIGH))
```

```
{
```

```
    digitalWrite(BL2, HIGH);
```

```
}
```

```
else
```

```
{
```

```
    digitalWrite(BL2, LOW);
```

```
}
```

```
}
```

