

Assignment -1

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TOPIC : home automation using Arduino

CODE:

```
#include <Servo.h>
```

```
Servo s;
```

```
void setup()
```

```
{
```

```
  pinMode(4,
```

```
  OUTPUT);
```

```
  pinMode(2, INPUT);
```

```
  s.attach(3);
```

```
}
```

```
void loop()
```

```
{
```

```
  s.write(0);
```

```
  int pir = digitalRead(2);
```

```
  double a =
```

```
  analogRead(A0);
```

```
  double t = (((a / 1024) * 5) - 0.5) * 100;
```

```
if(pir){  
  s.write(180);  
  delay(5000);  
}
```

```
if(t > 35)  
  digitalWrite(4, 0);
```

```
else  
  digitalWrite(4,  
    1);  
}
```

OUTPUT:

