

Department of Computer Science and Engineering

Assignment 1

**Topic :** Home Automation using Arduino

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**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:-

