

HOME AUTOMATION - DOOR BUZZER

```
servo1.write(0);
```

```
if(cm < 30)
```

```
{
```

```
    servo1.write(120);
```

```
    Serial.println("A Person Arrived, Door is Opening.....");
```

```
    delay(2000);
```

```
}
```

```
else
```

```
{
```

```
    servo1.write(0);
```

```
    Serial.println("Door is Closed.....");
```

```
}
```

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

```
if(pir == HIGH)
```

```
{
```

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

```
    delay(3000);
```

```
}
```

```
else if(pir == LOW)
```

```
{
```

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

```
}
```

```
float value=analogRead(A0);
```

```
float temp=((value/1024)*5.0199)-0.5)*100;
```

```
Serial.print("temp is ");
```

```
Serial.println(temp);
```

```
delay(3000);
```

```
if(temp > 20)
```

```
{
```

```
    digitalWrite(12,HIGH);
```

```
    digitalWrite(13,LOW);
```

```
}
```

```
else
```

```
{
```

```
    digitalWrite(12,LOW);
```

```
    digitalWrite(13,LOW);
```

```
}
```

```
}
```

```
long microsecondsToInches(long microseconds) {
```

```
    return microseconds / 74 / 2;
```

```
}
```

```
long microsecondsToCentimeters(long microseconds) {
```

```
    return microseconds / 29 / 2;
```

```
}
```

