



```
const int temperaturePin = 0;
```

```
int buzzer = 12;
```

```
void setup()
```

```
{
```

```
  pinMode(buzzer, OUTPUT);
```

```
}
```

```
void loop()
```

```
{float voltage, degreesC;
```

```
voltage = getVoltage(temperaturePin);
```

```
degreesC = (voltage - 0.5) * 100.0;
```

```
  if(degreesC<36||degreesC>40)
```

```
  {
```

```
    digitalWrite(buzzer, LOW);
```

```
    delay(500); //delay half a second
```

```
    tone(12, 1000, 100);
```

```
  }
```

```
}
```

```
float getVoltage(int pin)
{

    return (analogRead(pin) * 0.004882814);
}
```