

# program

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```
// C++ code
//
int t = 1;
int led = 10;
int Buzz= 5; // Define Buzzer pin
int LED= 6; // Define LED pin
int PIR= 2; // Define PIR pin
int val= 0; // Initializing the value as zero at the beginning

void setup()
{
  pinMode(A2, INPUT);
  pinMode(t, OUTPUT);
  pinMode(led,OUTPUT);
  Serial.begin(9600);
  pinMode(Buzz, OUTPUT);
  pinMode(LED, OUTPUT);
  pinMode(PIR, INPUT);
}

void loop()

{
  //temperature sensor with buzzer

  double a= analogRead(A2);
  double t=(((a/1024)*5)-0.5)*100;
  Serial.print("Temp Value: ");
  Serial.println(t);
  delay(1000);

  //LED ON
  if(t>=100)
  {
    digitalWrite(10,HIGH);
  }

  if(t>=100)
  {
    for(int i=0; i<=30000; i=i+10)
    {
      tone(12,i);
      delay(1000);
    }
  }
}
```

```
noTone(12);
delay(1000);
}
}
if(t<100)
{
    digitalWrite(10,LOW);
}
```

//PIR sensor with buzzer

```
val = digitalRead(PIR); // The value read from PIR pin 3 will be assigned to 'val'
if(val == HIGH){
    digitalWrite(LED, HIGH); // Turn LED ON
    digitalWrite(Buzz, HIGH); // Turn Buzzer ON
    Serial.println("Movement Detected"); // Print this text in Serial Monitor
}
else
{
    digitalWrite(LED, LOW);
    digitalWrite(Buzz, LOW);
    Serial.println("Movement not Detected");
}

}
```