

## LAB-4(sketch)

```
#include <CapSense.h>

/*
  Playing with pots.
  Written 23 Aug 2011 by Alex Clarke
*/

//constants for this sketch

const int ledPin = 5;
const int ledPin1 = 6;
const int potPin = 3;

// variables for this sketch

int pot_value;
int frequency;

void setup()
{
  pinMode(ledPin, OUTPUT);
  pinMode(ledPin1, OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  //read voltage from the potentiometer
  pot_value = analogRead(potPin);
  Serial.print(" I just read: ");
  Serial.print(pot_value);
  Serial.println(" which is, like, cool man.");
  //Set the LED to brightness pot_value
  analogWrite(ledPin, pot_value);
}
```

```
if (pot_value >700 )
{
    digitalWrite(ledPin, LOW);
    digitalWrite(ledPin1, LOW);
}
else
{
    digitalWrite(ledPin, HIGH);
    digitalWrite(ledPin1, HIGH);
}
//Play the sound represented by frequency pot_value
//tone(piezoPin, pot_value);
}
```