## Lab 3: Program 7

Date: 30/09/20

**Experiment: PIR Sensor** 

Aim: To use a PIR sensor to detect motion

## Hardware:

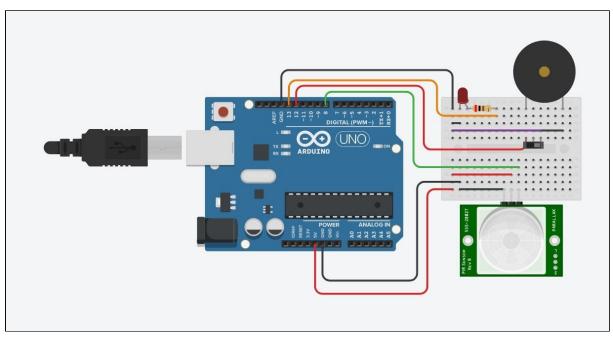
- Buzzer
- Arduino Uno
- LED
- PIR sensor

```
• Resistor: 220 Ohm
Source:
int buzzer = 12;
int pir = 8;
int led = 13;
void setup()
{
  pinMode(buzzer, OUTPUT);
  pinMode(pir, INPUT);
  pinMode(led, OUTPUT);
  digitalWrite(pir,LOW);
  Serial.begin(9600);
}
void loop()
  if(digitalRead(pir)==HIGH)
   digitalWrite(led, HIGH);
   Serial.println("Motion detected");
    while(digitalRead(pir)==HIGH) {
    digitalWrite(buzzer, HIGH);
         delay(1000);
         digitalWrite(buzzer,LOW);
  }
```

```
else {
    Serial.println("NO motion detected");
    digitalWrite(led,LOW);
    digitalWrite(buzzer,LOW);
}
```

Observation: The LED glows and Buzzer makes noise when motion is detected.

## Circuit:



Write Up:

```
IUT-bab-3
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                     PIR
 Source Code
 int buyer = 12;
 int pix = 8;
 int led = 13;
 void setup ()
fin Mode (lengger, OUTPUT);
pin Mode (pin, INPUT);
   pin Mode (led, OUTPUT);
  digital Wite (pir, LOW);
  Serial begin (9600);
void loop ()
   if ( digital Read (pur) == HIGH)
      digital Write (led, HIGH);
       Serial. println ("Motion detected");
       while (digital Read (pir) == HIGH)
           digital Write (buzzer, HIGH);
           delay (1000);
           digital Write (bugger, Low);
   else {
      Serial printh ("No motion ditected");
     digital Write (led, LOW);
     digital Write (buyer, LOW);
```