

Practical Assignment

1. PIR sensor to detect motion and light the bulb.

Code:

```
int releNO = 13;
int inputPir = 2;
int val = 0;
int resuldoSensorLDR;
int sensorLDR = A0;

void setup()
{
  pinMode(releNO, OUTPUT);
  pinMode(inputPir, INPUT);
  pinMode(sensorLDR, INPUT);
  Serial.begin(9600);
}

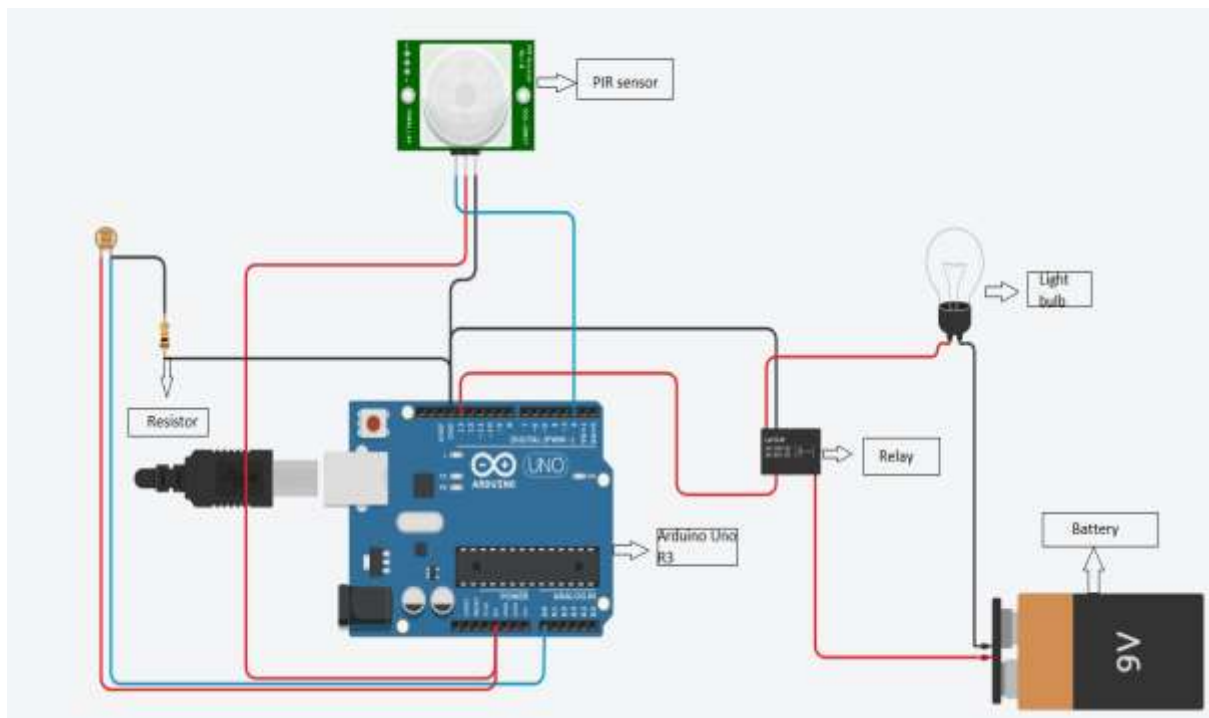
void loop()
{
  val = digitalRead(inputPir);
  resuldoSensorLDR = analogRead(sensorLDR);
  if(resuldoSensorLDR<600)
  {
    if(val == HIGH)
    {
      digitalWrite(releNO, HIGH);
      delay(5000);
    }
  }
  else{
    digitalWrite(releNO, LOW);
    delay(300);
  }
}
```

```

}
else{ digitalWrite (releNO, LOW);
Serial.println(resuldoSensorLDR);
delay(500);
}
}

```

Circuit diagram:



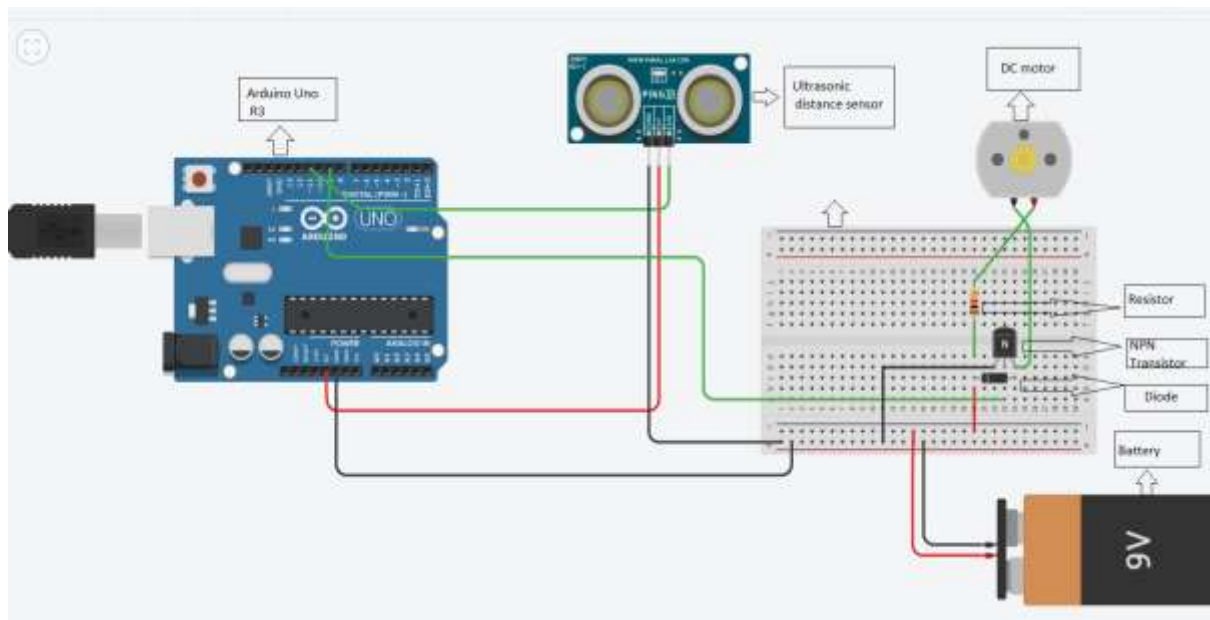
2. Water Level Detector.

Code:

```
void setup()
{
  pinMode(13, OUTPUT);
}

void loop()
{
  digitalWrite(13, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(13, LOW);
  delay(1000); // Wait for 1000 millisecond(s)
}
```

Output:

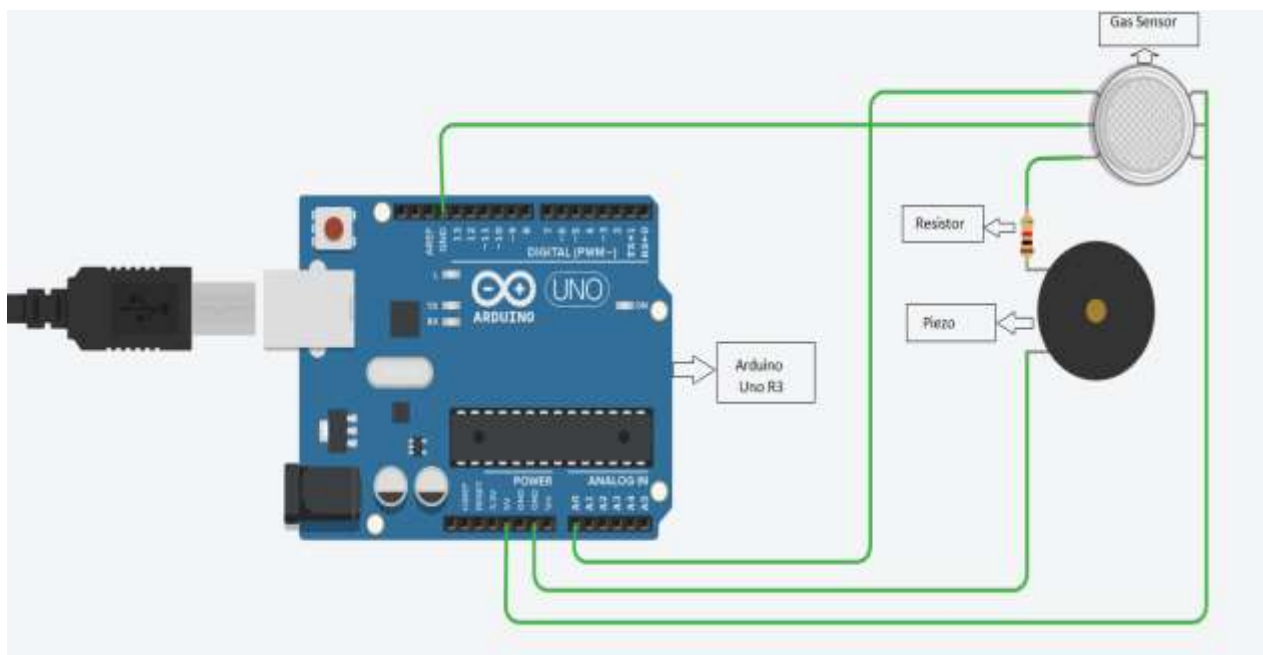


3. Smoke sensor with buzzer alarm.

Code:

```
const int gasPin = A0;  
  
void setup()  
{  
    Serial.begin(9600);  
}  
  
void loop()  
{  
    Serial.println(analogRead(gasPin));  
    delay(1000);  
}
```

Output:



4. Room having 2 light bulb and 2 fan.

Code:

```
void setup()
{
  pinMode(13, OUTPUT);
}

void loop()
{
  digitalWrite(13, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
}
```

Output:

