

## Program no : 8

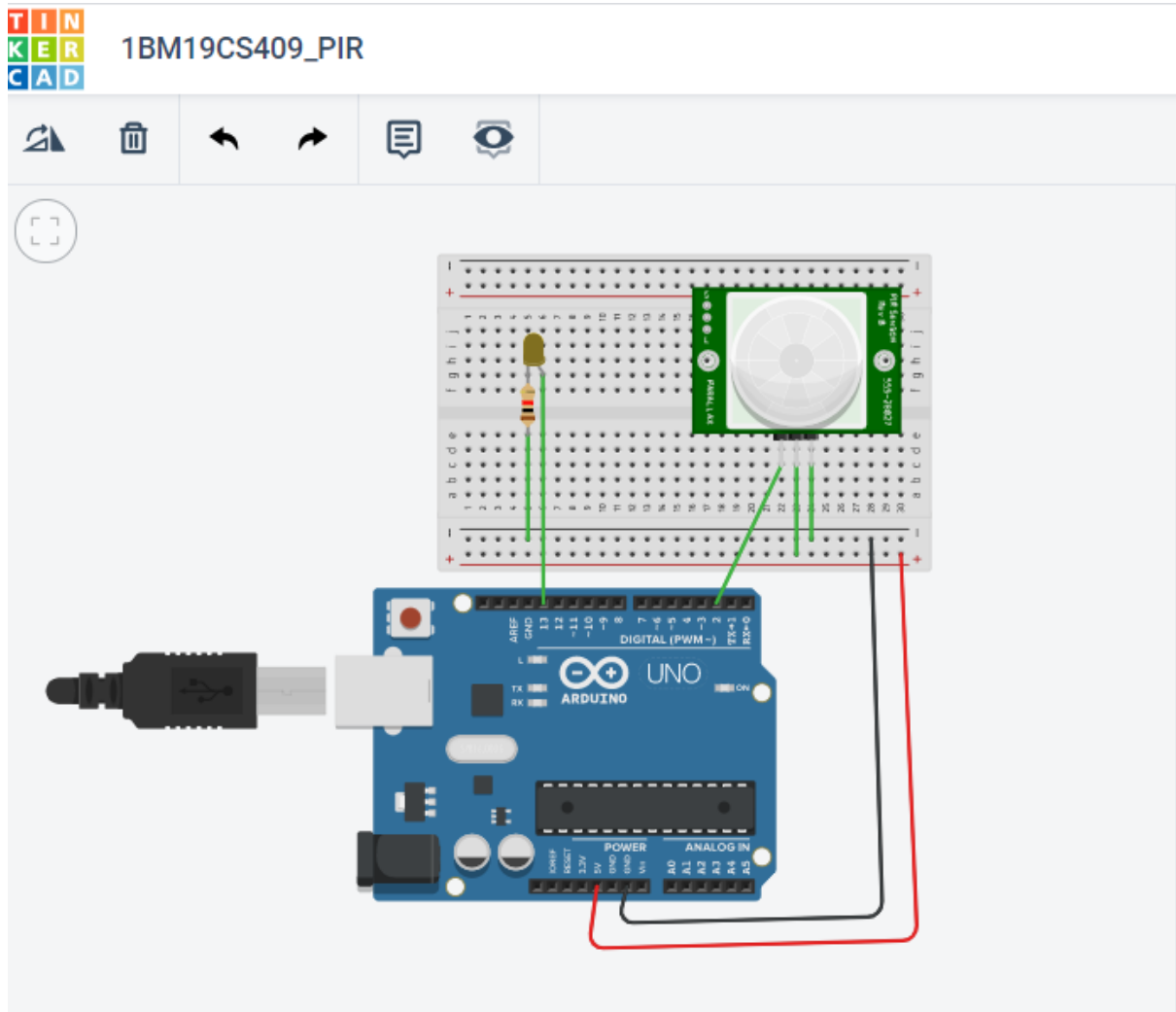
## Program Title : Motion Detection Sensor (PIR)

**Aim :** To turn on the LED upon detecting the motion.

### Hardware Required

- Arduino Board
- Breadboard
- Wires
- LED
- Resistor
- PIR Sensor

### Circuit Diagram :



## Code:

Sumalata  
IBMI9CS409  
Date: 30/9/2020

Program - 8  
Motion Detection Sensor (PIR)

```
int led = 13;
int Sensor = 2;
int State = Low;
int SensorState = 0;

void Setup()
{
  pinMode(led, OUTPUT);
  pinMode(Sensor, INPUT);
  Serial.begin(9600);
}

void loop()
{
  SensorState = digitalRead(Sensor);
  if (SensorState == HIGH)
  {
    digitalWrite(led, HIGH);
    delay(10);
  }
}
```

10

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Sumalata  
IBMI9CS409  
Date: 7/10/20

```
if (State == Low)
{
  Serial.println("The Sensor is  
activated!");
  State = HIGH;
}
else
{
  digitalWrite(led, Low);
  delay(10);
  if (State == HIGH)
  {
    Serial.println("The Sensor is  
deactivated!");
    State = Low;
  }
}
}
```

11

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## Observation /Output :

