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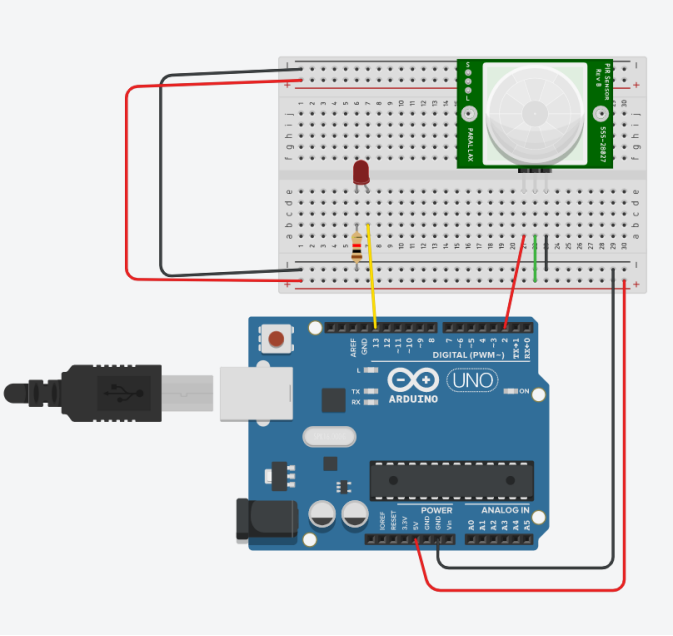
PROGRAM TITLE: PIR SENSOR

Aim: DEMONSTRATE AND SHOW THE WORKING OF PIR SENSOR

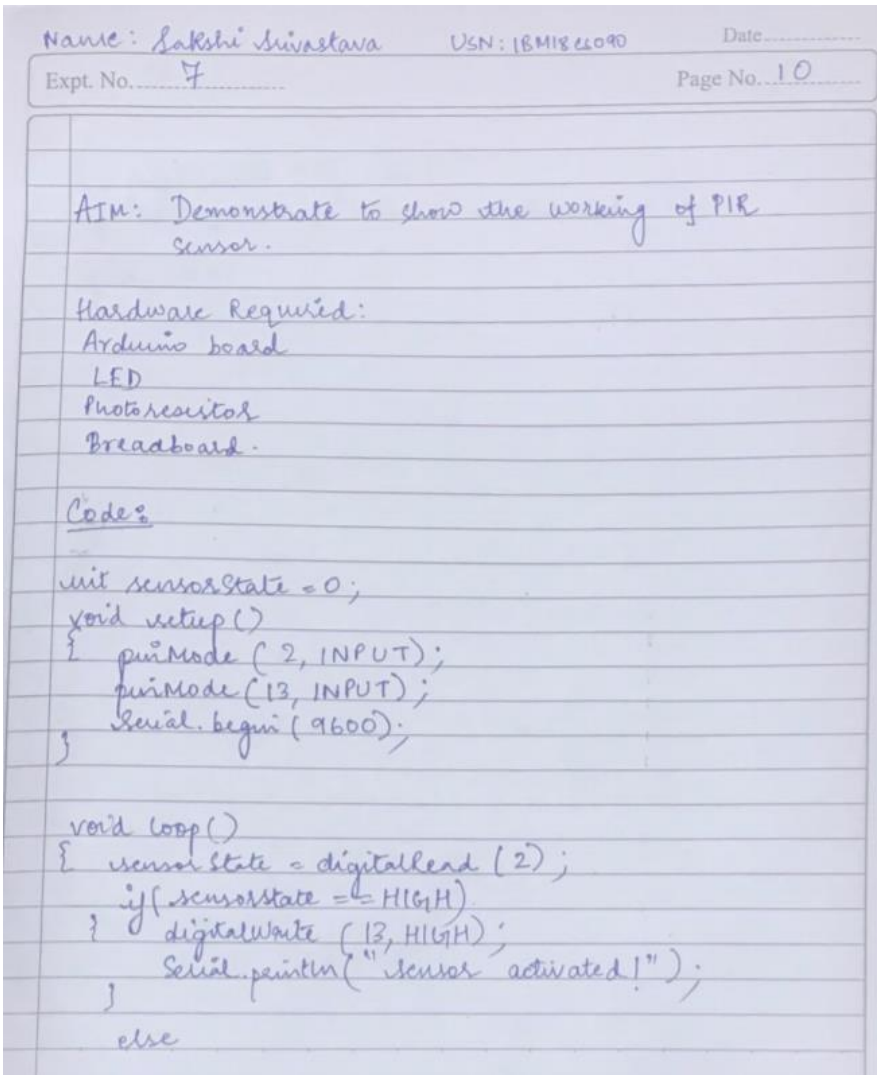
Hardware Required:

- Arduino Board
- LED
- Photoresistor
- Resistor

Circuit Diagram:



Write-Up:



Name: Lakshi Srivastava USN: 1BM18ec090 Date

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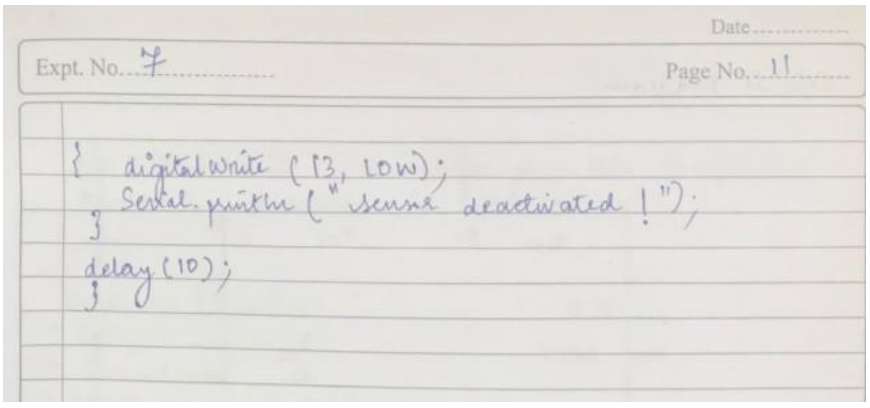
AIM: Demonstrate to show the working of PIR sensor.

Hardware Required:
Arduino board
LED
Photoresistor
Breadboard.

Code:

```
int sensorState = 0;
void setup()
{  pinMode (2, INPUT);
   pinMode (13, INPUT);
   Serial.begin (9600);
}

void loop()
{  sensorState = digitalRead (2);
   if(sensorstate == HIGH)
   {  digitalWrite (13, HIGH);
      Serial.println("sensor activated!");
   }
   else
```



Date

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```
{  digitalWrite (13, LOW);
   Serial.println("sensor deactivated!");
}
delay(10);
}
```

CODE:

```
int sensorState = 0;
void setup()
{
  pinMode(2, INPUT);
  pinMode(13, OUTPUT);
  Serial.begin(9600);
}
void loop()
{
  // read the state of the sensor/digital input
  sensorState = digitalRead(2);
  // check if sensor pin is HIGH. if it is, set the
  // LED on.
  if (sensorState == HIGH)
  {
    digitalWrite(13, HIGH);
    Serial.println("Sensor activated!");
  } else
  {
    digitalWrite(13, LOW);
    Serial.println("Sensor Deactivated!");
  }
  delay(10); // Delay a little bit to improve simulation performance
}
```

OUTPUT/OBSERVATION:

Sensor is activated.