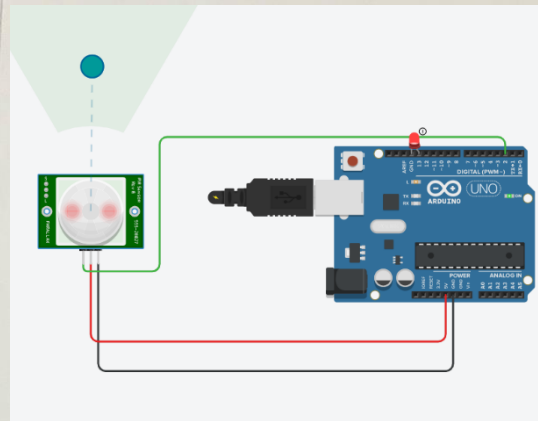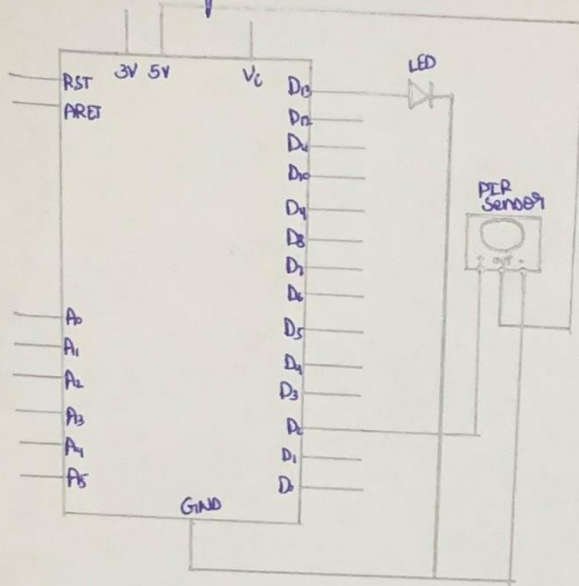Title : PIR LED

Aim : To switch on the light when someone is ditected in the range.

Hardware Required: Aurduino Board, PIR Sensor, LED, Wire

Circuit Diagram:

Code:
```
int LED = 13;
int PIR = 2;
void setup()
{
    pinMode (LED, OUTPUT);
    pin Mode (PIR, INPUT);
    Serial. begin (9600);
}
void loop()
{  if (digitalRead(PIR) == HIGH)
    {
        digitalWrite (LED, HIGH);
        delay(100);
    }
    else
    {  digitalWrite (LED, LOW);
        delay(100);
    }
}
```

Observation/Conclusion:
The light gets switched on if a person comes inside the range of the sensor and gets turned off when the person is not in the range of sensor.