

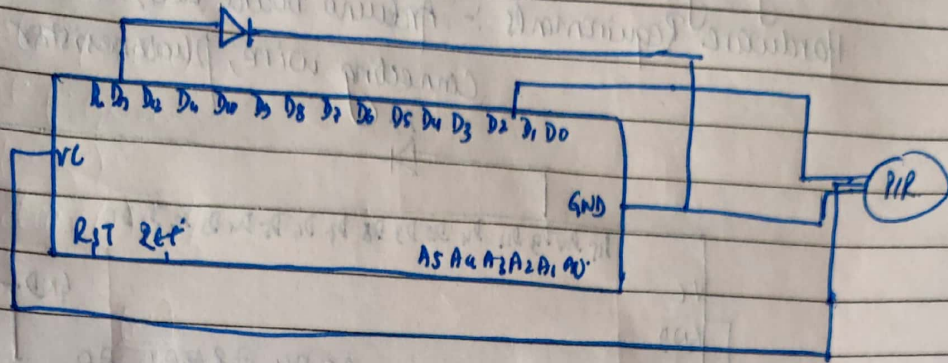
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Program 7 :- IR sensor.

Circuit Diagram :-



Code :-

```
int led = 13;
int sensor = 1;
int state = LOW;
int val = 0;

void setup()
{
  pinMode(led, OUTPUT);
  pinMode(sensor, INPUT);
  Serial.begin(9600);
}

void loop()
{
  val = digitalRead(sensor);
  if (val == HIGH)
  {
    digitalWrite(led, HIGH);
    delay(10);
    if (state == LOW)
    {
      Serial.println("Motion detected!");
      state = HIGH;
    }
  }
  else
  {
    digitalWrite(led, LOW);
    delay(10);
    if (state == HIGH)
    {
      Serial.println("Motion stopped");
      state = LOW;
    }
  }
}
```

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