

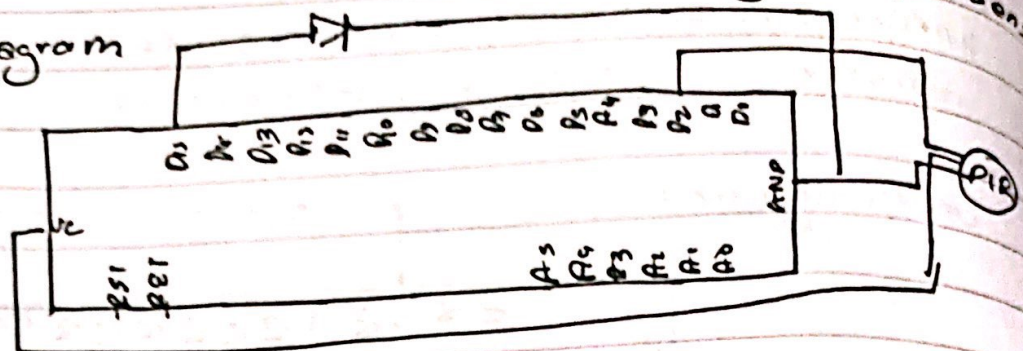
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Program: 7 - PIR sensor

Aim: Demonstrate the working of passive infrared sensor.

Hardware Requirement: Arduino board, LED (resistor), breadboard, connecting wires, PIR sensor

Circuit diagram



code:-

```
int led = 13;
```

```
int sensor = 5;
```

```
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!");
```

```
  else {
```

```
    digitalWrite(led, LOW);
```

```
    if delay(10);
```

```
    if (state == HIGH)
```

```
    { Serial.println("motion stopped");
```