Program no____6____

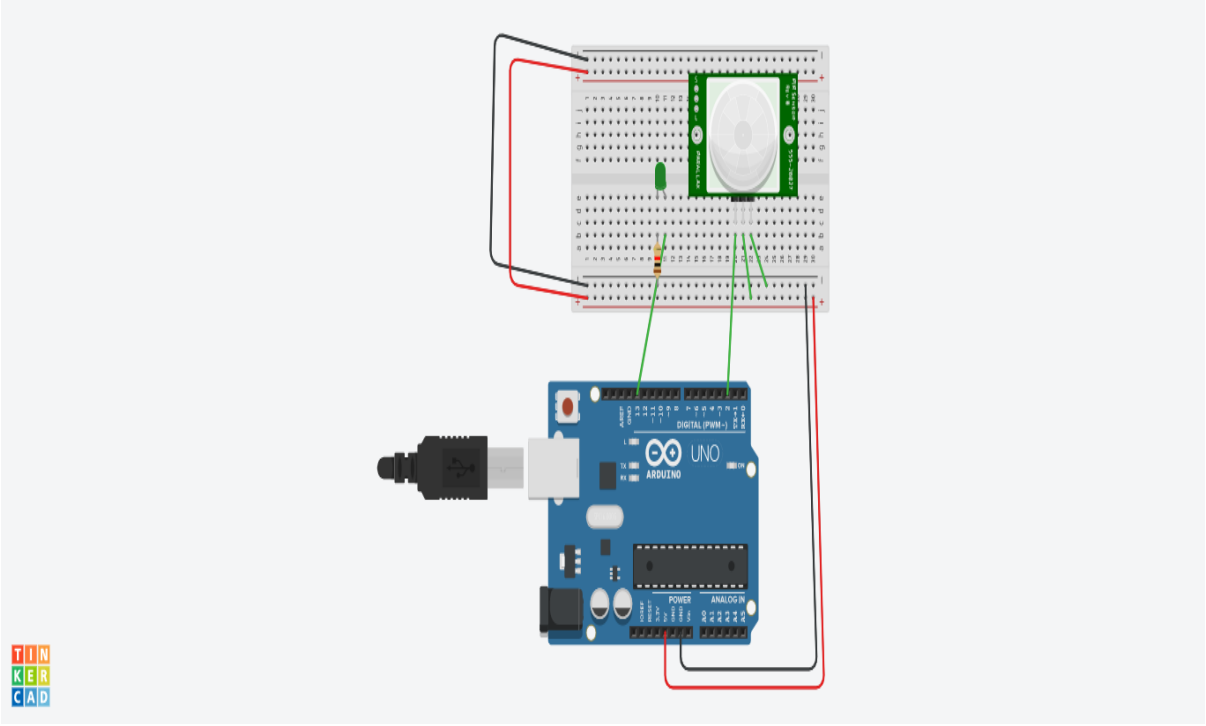
Program Title_____PIR_____

Aim The lights turns on if there is any motion in the range

Hardware Required

- Arduino Board
  LED
  PIR sensor
  Resistor

Circuit Diagram



Code:

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Code:

```
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);
  if (state == LOW)
  {
  Serial.Println(" Sensor activated! ");
    State = HIGH ;
  }
  } else{
    digital write(led, Low);
     delay(10);
     if (State == HIGH){
     Serial.Println(" Sensor deactivated ");
      State = Low; }}}
```

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Observation /Output

The lights turns on if there is any motion in the range