

LDR (Light Dependent Resistor)

IBM18CS042

Code

```
const int ledPin = 10;  
const int ldrPin = A0;
```

```
void setup()
```

```
{  
  serial.begin(9600);  
  pinMode(ledPin, OUTPUT);  
  pinMode(ldrPin, INPUT);  
}
```

```
void loop()
```

```
{  
  int ldrStatus = analogRead(ldrPin);  
  if (ldrStatus <= 200)  
  {  
    digitalWrite(ledPin, HIGH);  
    Serial.print("It's Dark, Turn on the LED");  
    Serial.print(ldrStatus);  
  }  
  else  
  {  
    digitalWrite(ledPin, LOW);  
    Serial.print("It's Bright; Turn off the LED");  
    Serial.println(ldrStatus);  
  }  
}
```

Program title : PIR.

C. Karan Naidu
IBM 18C5042.

Code :

```
int led = 13;
int sensor = 6;
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);
  }
}
```

Program title: TEMP

C. Korian Naid

IBM18C5042

Code:

```
int outputPin = 0;  
void setup()
```

```
{  
  serial.begin(9600);  
}
```

```
void loop()
```

```
{  
  int raw voltage = analogRead(outputPin);  
  float milivolts = (raw voltage / 1240.0) * 5000;  
  float celsius = milivolts / 10;
```

```
  serial.print(celsius);
```

```
  serial.print(" Celci Celsius");
```

```
  serial.print(" (celsius * 9) / 5 + 32);
```

```
  serial.print(" \n in Fahrenheit");
```

```
  delay(1000);
```

```
}
```