

# Lab 6 : Program 14

Date : 28/10/20

Experiment : Tilt Sensor

Aim: To demonstrate how a tilt sensor works.

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## Hardware

- Arduino Uno
- Tilt Sensor
- LED
- Resistors

## Source Code:

```
int led = 13;  
int sensor = 2;
```

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

```
void loop()  
{  
    int val = digitalRead(sensor);  
    Serial.println(val) ;  
    if (val == HIGH)  
    {  
        digitalWrite(led, HIGH);  
    }  
    else  
    {  
        digitalWrite(led, LOW);  
    }  
    delay(500);  
}
```

The LED glows when the sensor is tilted.

## Write Up:

Source Code:

```
int led = 13;
int sensor = 2;

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

void loop()
{
  int val = digitalRead(sensor);
  Serial.println(val);
  if (val == HIGH)
  {
    digitalWrite(led, HIGH);
  }
  else
  {
    digitalWrite(led, LOW);
  }
  delay(500);
}
```