

**Program no** 14

**Program Title** Smart Package Handling System

**Aim:**

The light Fades as the tilt sensor tilts.

**Hardware Required:**

- Arduino Board
- LED
- Tilt sensor
- Resistor

**Circuit Diagram:**

The screenshot displays the Tinkercad web interface for a project titled "Smart package Handling system". The circuit diagram shows an Arduino Uno R3 connected to a breadboard. A red LED is connected to digital pin 13 (statusLED) and a green LED is connected to digital pin 2 (switchTilt). A tilt sensor is connected to digital pin 2. The code editor on the right contains the following code:

```
1 const int statusLED = 13;
2 const int switchTilt = 2;
3 int val = 0;
4 void setup(){
5     pinMode (statusLED,OUTPUT);
6     pinMode (switchTilt,INPUT);
7 }
8 void loop(){
9     val = digitalRead(switchTilt);
10    if (val == HIGH){
11        digitalWrite(statusLED,HIGH);
12    }
13    else {
14        digitalWrite(statusLED,LOW);
15    }
16 }
```

The Serial Monitor is visible at the bottom of the interface.

## Code:

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```
const int statusLED = 13;
const int switchTilt = 2;
int val = 0;
void setup()
{
    pinMode(statusLED, OUTPUT);
    pinMode(switchTilt, INPUT);
}
void loop()
{
    val = digitalRead(switchTilt);
    if (val == HIGH) {
        digitalWrite(statusLED, HIGH);
    }
    else {
        digitalWrite(statusLED, LOW);
    }
}
```

## Observation /Output:

The light Fades as the tilt sensor tilts.

