

**KCG COLLEGE OF TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**ENGINEERING**

**IOT ASSIGNMENT -3**

**TOPIC: IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE**

**NAME: PREETHI S**

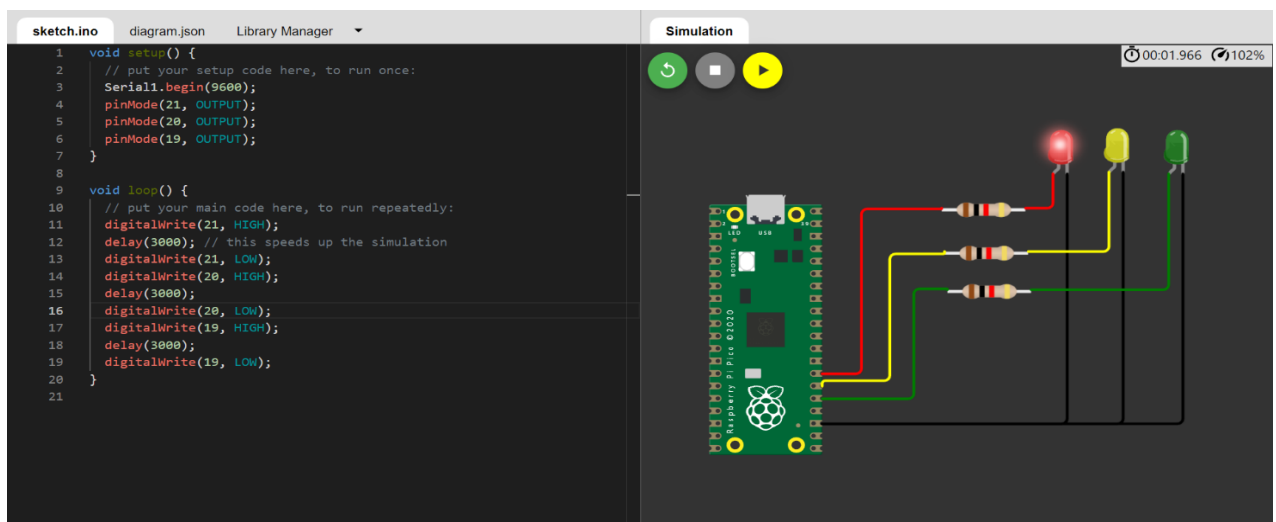
**Python Code:**

```
void setup() {  
    // put your setup code here, to run once:  
    Serial1.begin(9600);  
    pinMode(21, OUTPUT);  
    pinMode(20, OUTPUT);  
    pinMode(19, OUTPUT);  
}  
  
void loop() {  
    // put your main code here, to run repeatedly:  
    digitalWrite(21, HIGH);  
    delay(3000); // this speeds up the simulation  
    digitalWrite(21, LOW);  
    digitalWrite(20, HIGH);  
    delay(3000);  
    digitalWrite(20, LOW);  
    digitalWrite(19, HIGH);  
    delay(3000);  
    digitalWrite(19, LOW);  
}
```

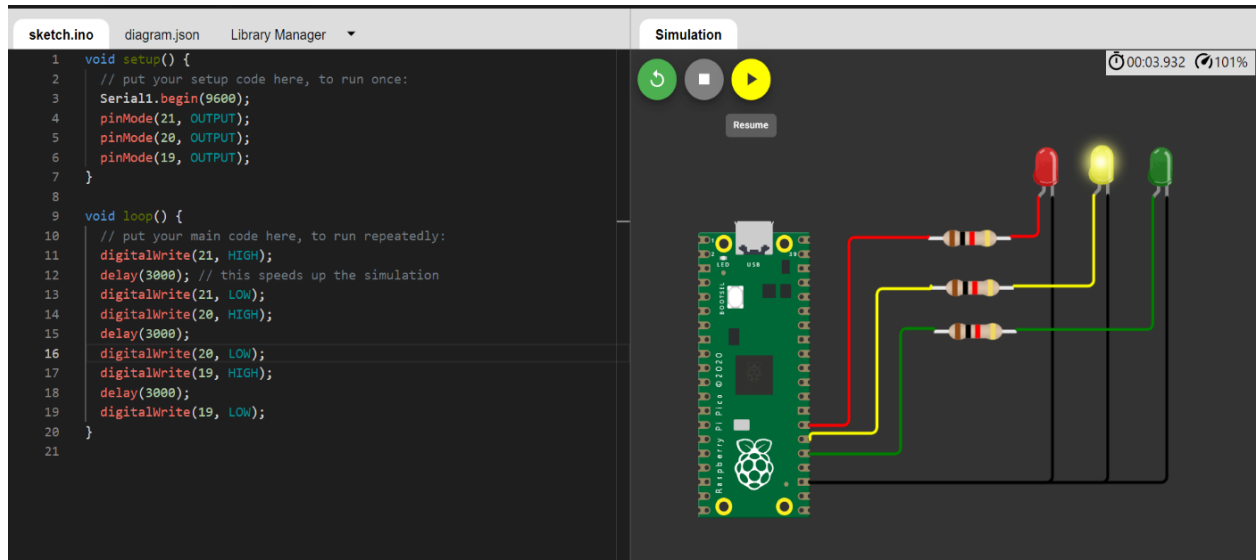
## OUTPUT:

### Traffic Lights For Raspberry Pi

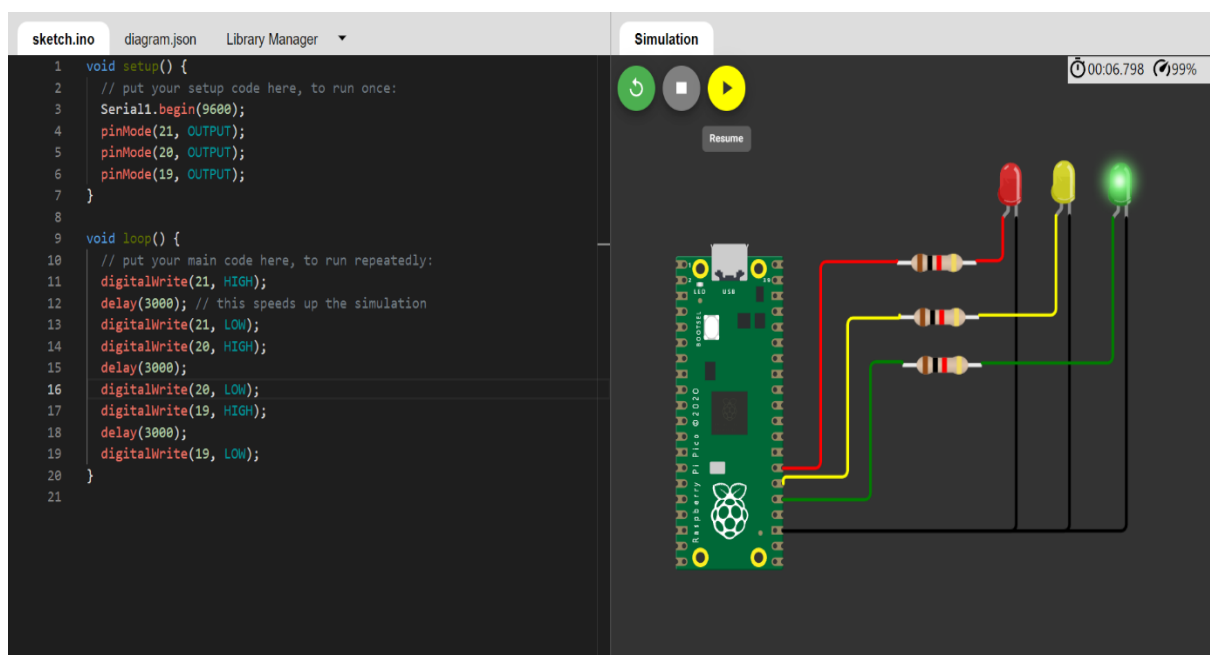
#### Blinking Red Light:



## Blinking Yellow Light:



## Blinking Green Light:



## BLINKING LED:

### PROGRAM FOR BLINKING LED:

#### Python code:

```
void setup() {  
  // put your setup code here, to run once:
```

```
Serial.begin(9600);
pinMode(22, OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
  digitalWrite(22, HIGH);
  Serial.println("LED ON");
  delay(2000);
  digitalWrite(22, LOW);
  Serial.println("LED OFF");
  delay(2000);
}
```

**Output:**

**Blinking LED For Raspberry pi:**

