ASSIGNMENT-3

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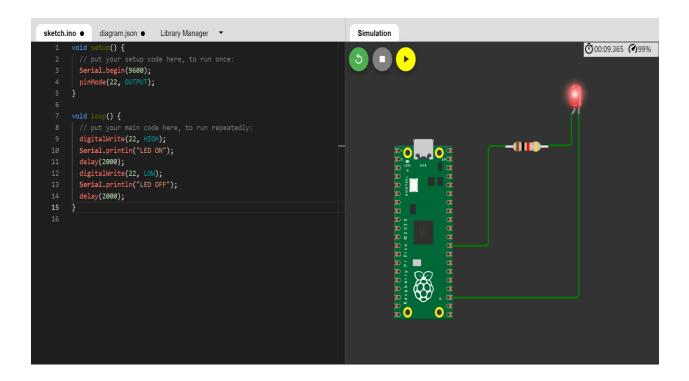
BLINKING LED:

```
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:



PROGRAM FOR TRAFFIC LIGHT

Python Code:

```
void setup() {
 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:

Blinking Red Light:

```
sketch.ino diagram.json Library Manager 

void setup() {

// put your setup code here, to run once:

Seriall.begin(9600);

pinMode(21, QUTPUT);

pinMode(19, QUTPUT);

// put your main code here, to run repeatedly:

digitallwrite(21, HIGH);

delay(3000);
// put your main code here, to run repeatedly:

digitallwrite(20, HIGH);

delay(3000);
// put your main code here, to run repeatedly:

digitallwrite(20, HIGH);

delay(3000);
// put your main code here, to run repeatedly:

digitallwrite(20, HIGH);

delay(3000);
// put your main code here, to run repeatedly:

digitallwrite(21, LOM);

digitallwrite(20, HIGH);

delay(3000);

digitallwrite(10, HIGH);

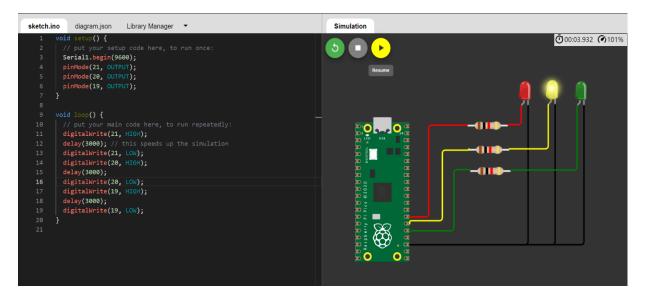
delay(3000);

digitallwrite(10, HIGH);

delay(3000);

digitallwrite(10, LOM);
```

Blinking Yellow Light:



Blinking Green Light:

