ASSIGNMENT-3

DOMAIN : IOT

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PROGRAM FOR TRAFFIC LIGHT
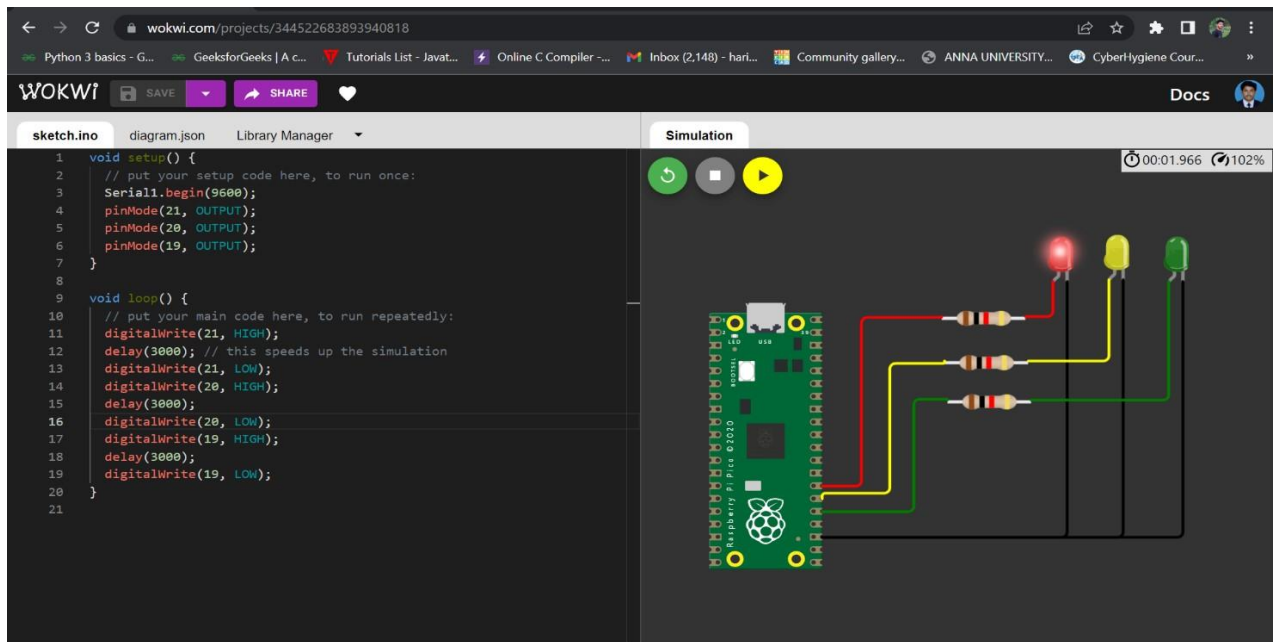
Python Code:

```
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);
}
```
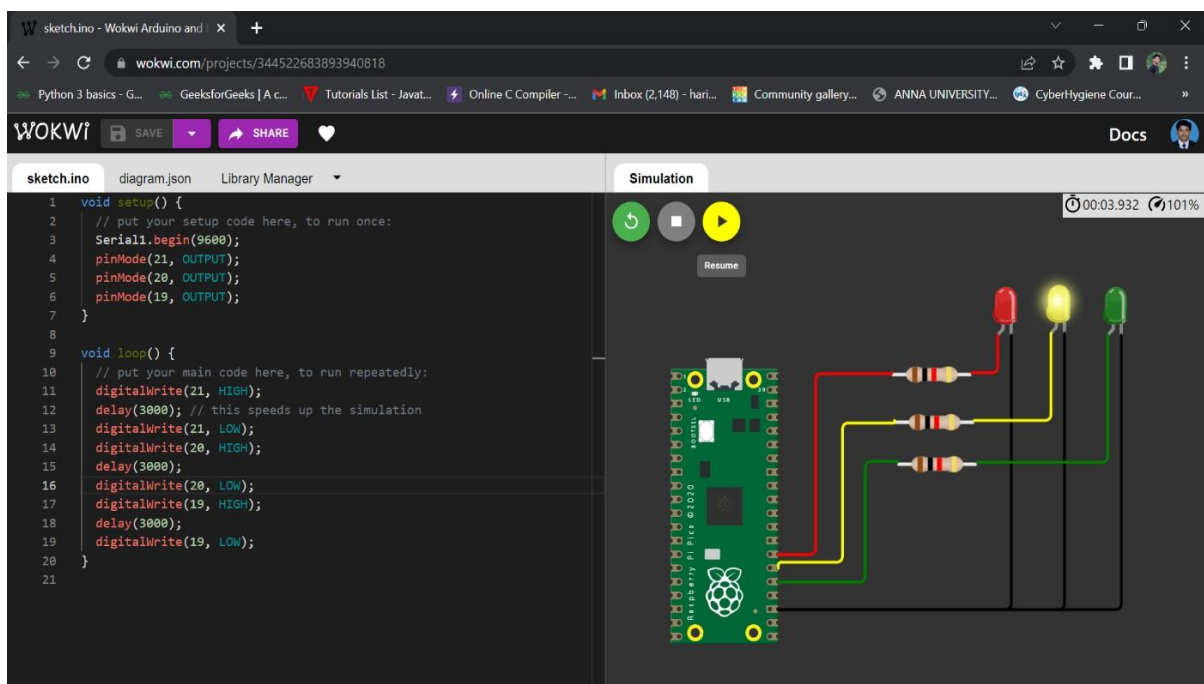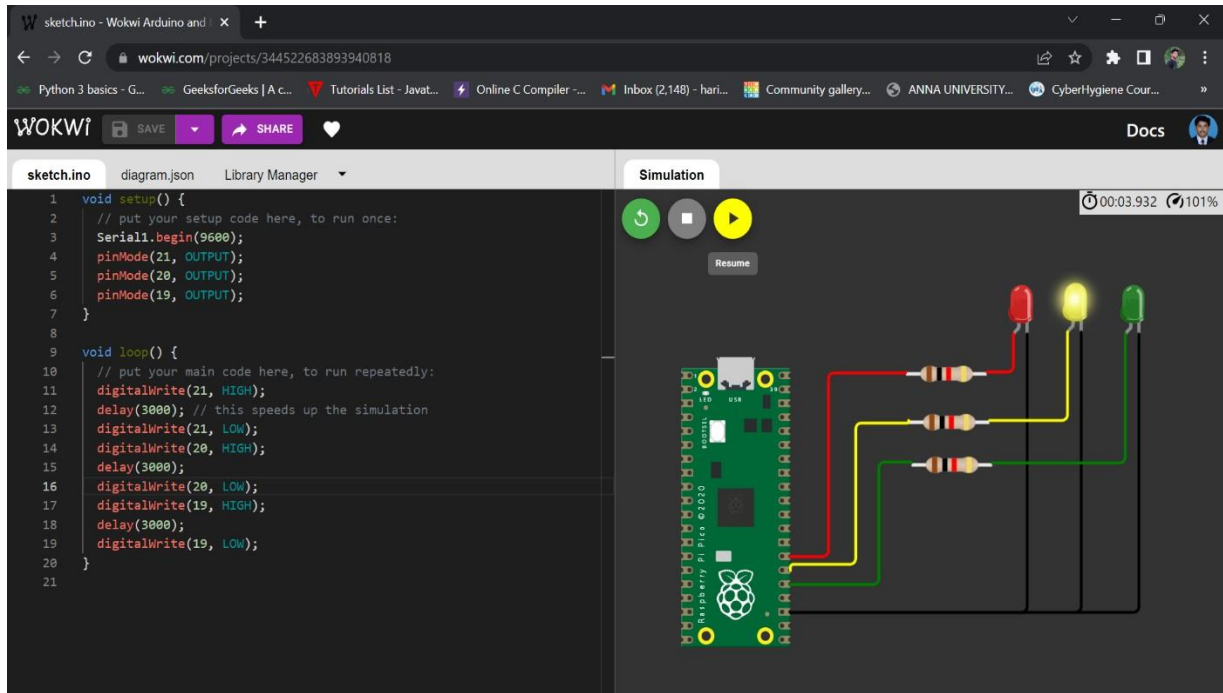
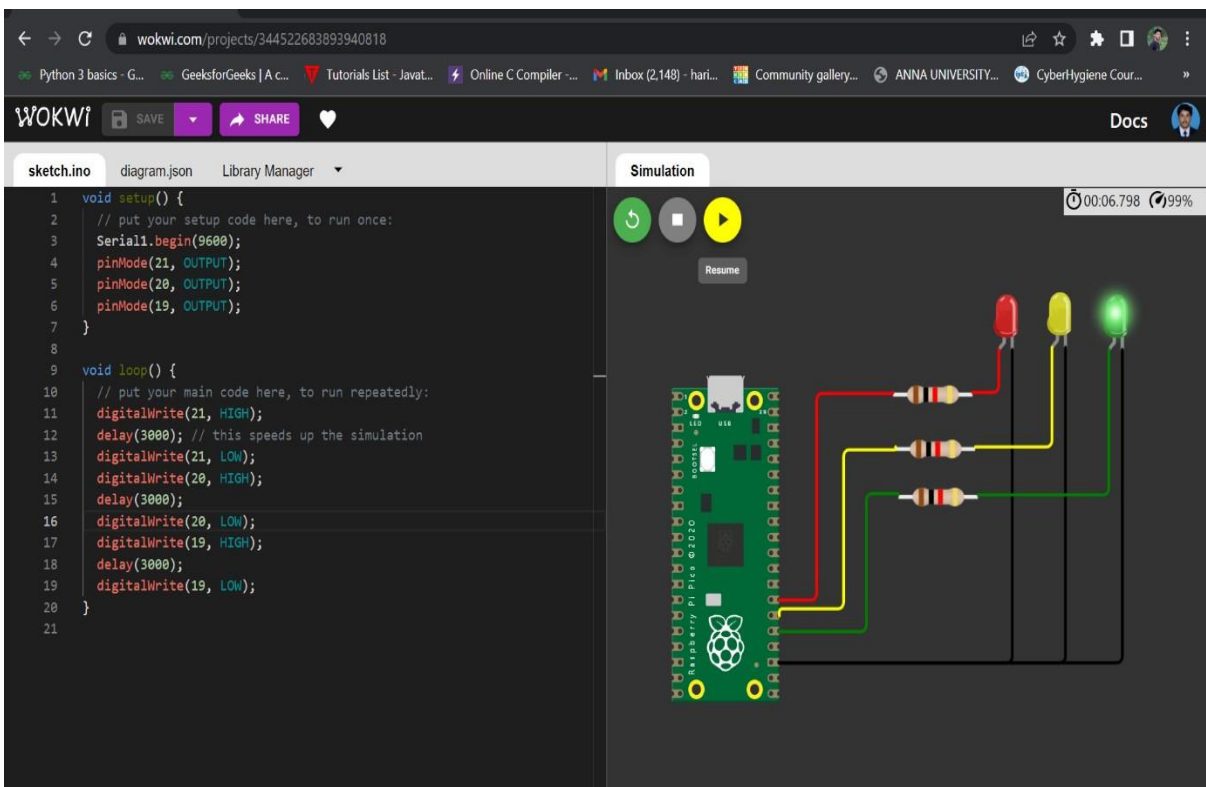## OUTPUT:

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: