

ASSIGNMENT-3

DOMAIN : IOT

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PROGRAM FOR TRAFFIC LIGHT

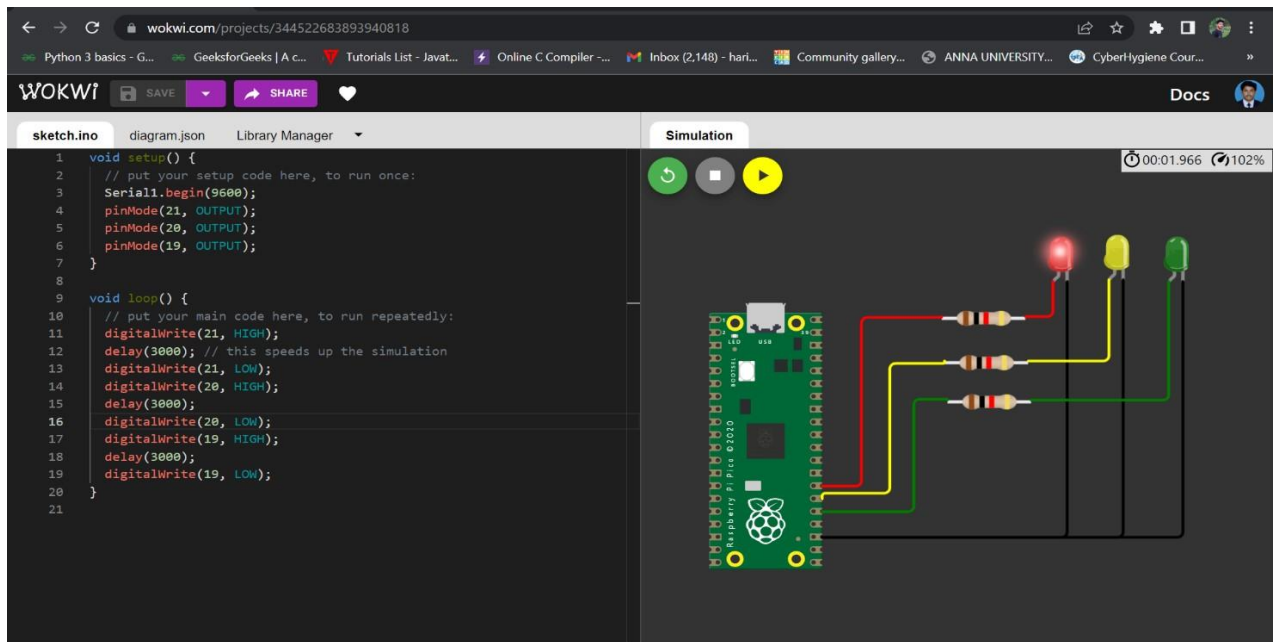
Python Code:

```
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);  
}
```

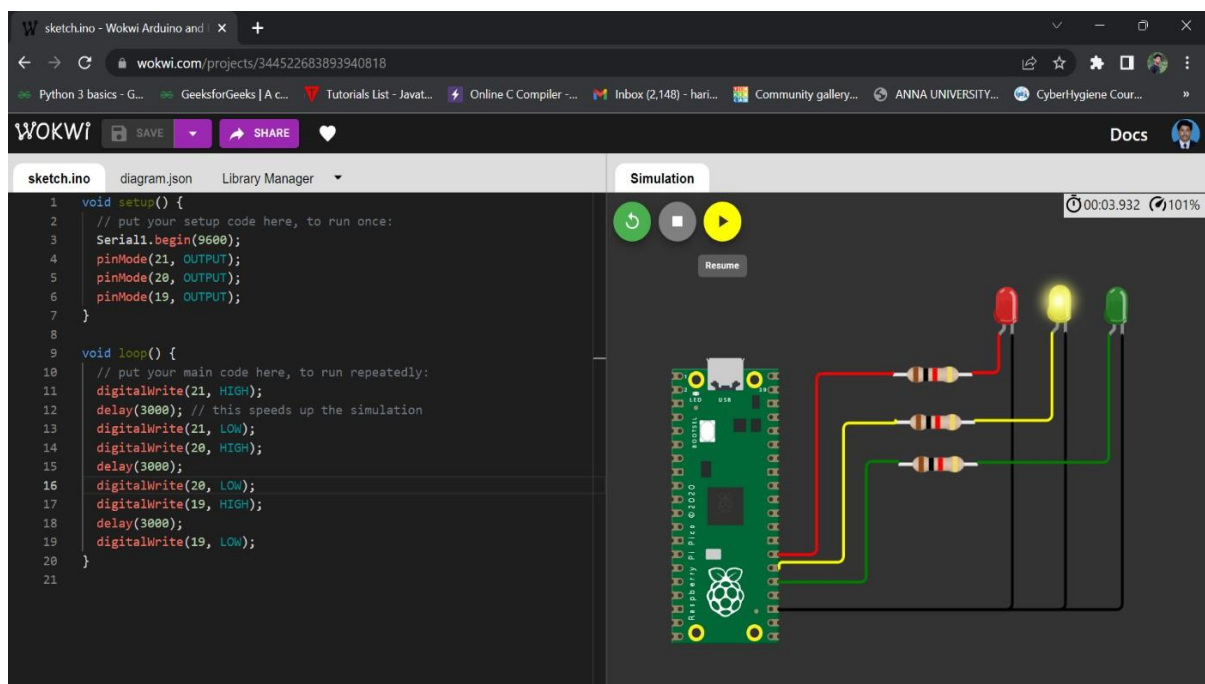
OUTPUT:

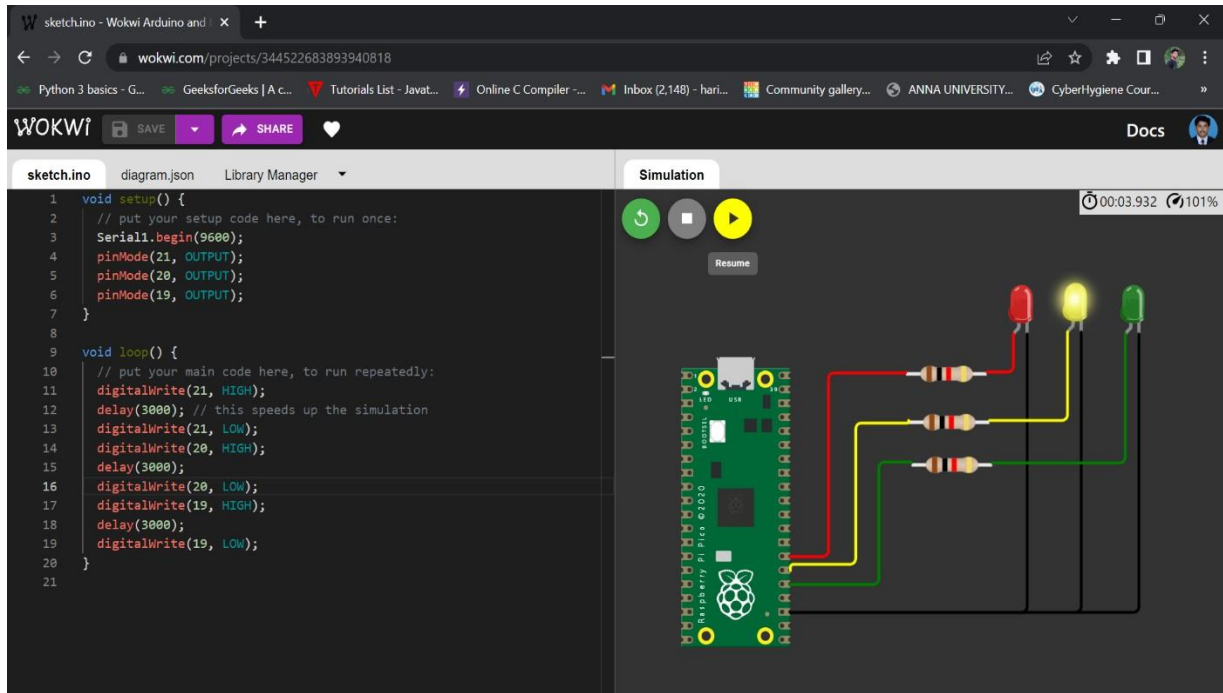
Traffic Lights For Raspberry Pi Blinking

Red Light:

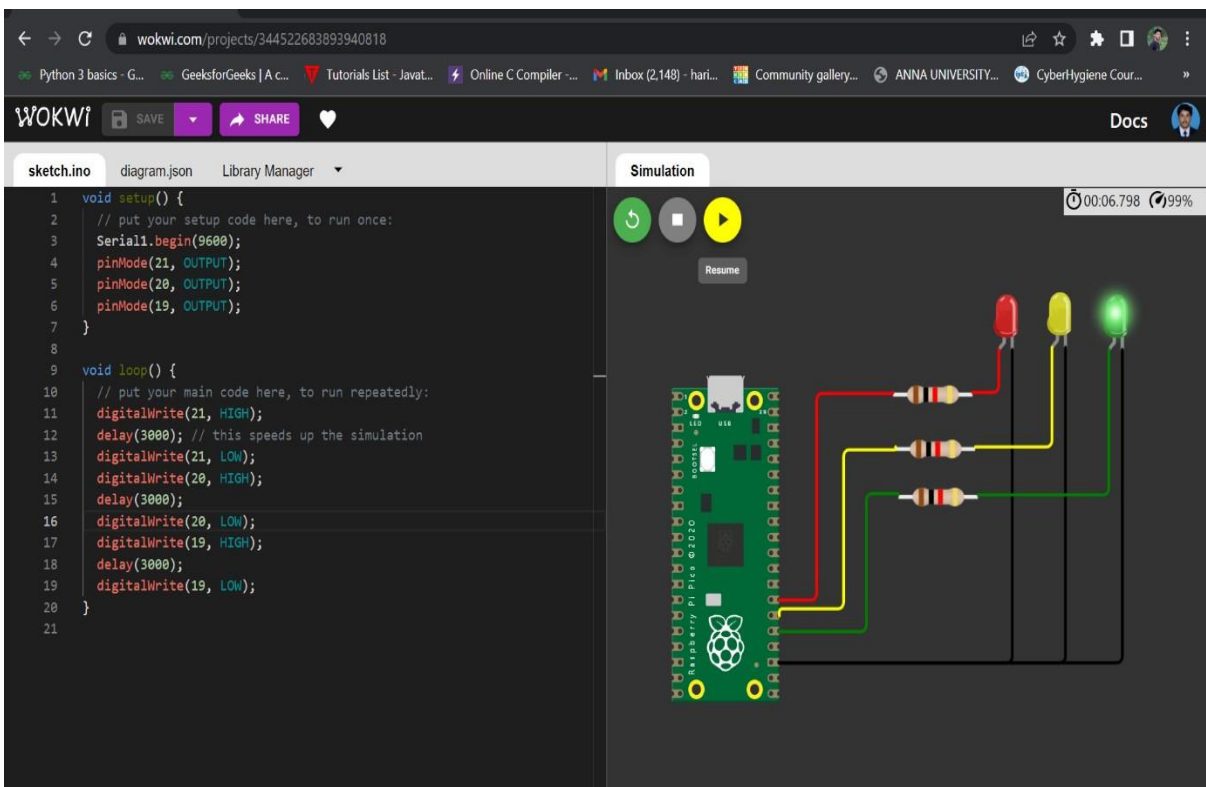


Blinking Yellow Light:





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:

