

ASSIGNMENT-3

DOMAIN

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T

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PROGRAM FOR TRAFFIC LIGHT

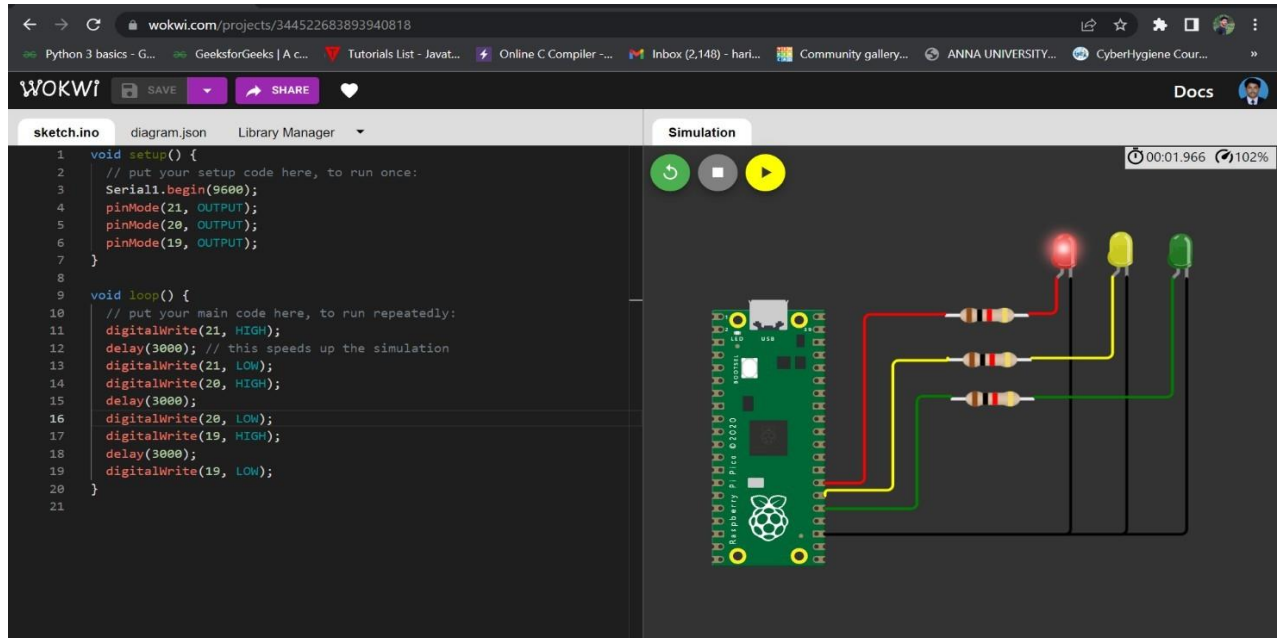
Python Code:

```
void setup(){
  //put your setup code here, to run once: Serial1.begin (9600);
  pinMode(21,
  OUTPUT);pinMode(20,
  OUTPUT);pinMode(19,OUTPUT);
}

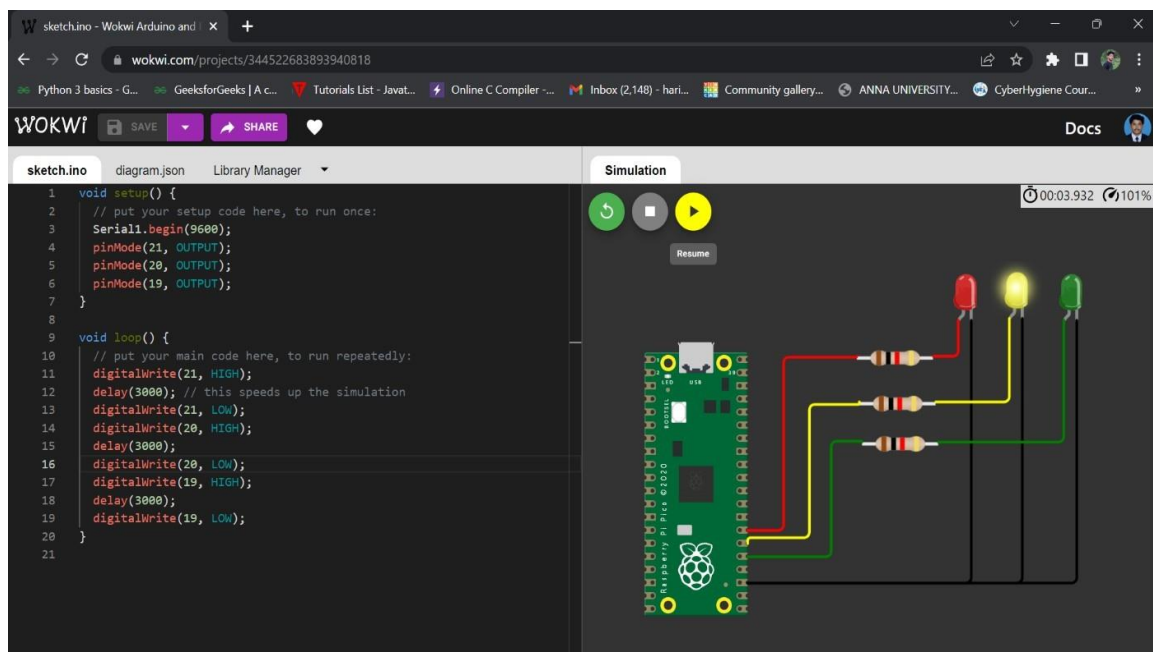
void loop(){
  //put your main code here, to run repeatedly: digitalWrite(2
  1,HIGH);
  delay(3000);//this speeds up the simulation digitalWrite(
  21,LOW);
  digitalWrite(20,HIGH);delay(
  3000);digitalWrite(20,
  LOW);digitalWrite(19,HIGH);
  delay(3000);digitalWrite(19,
  LOW);
}
```

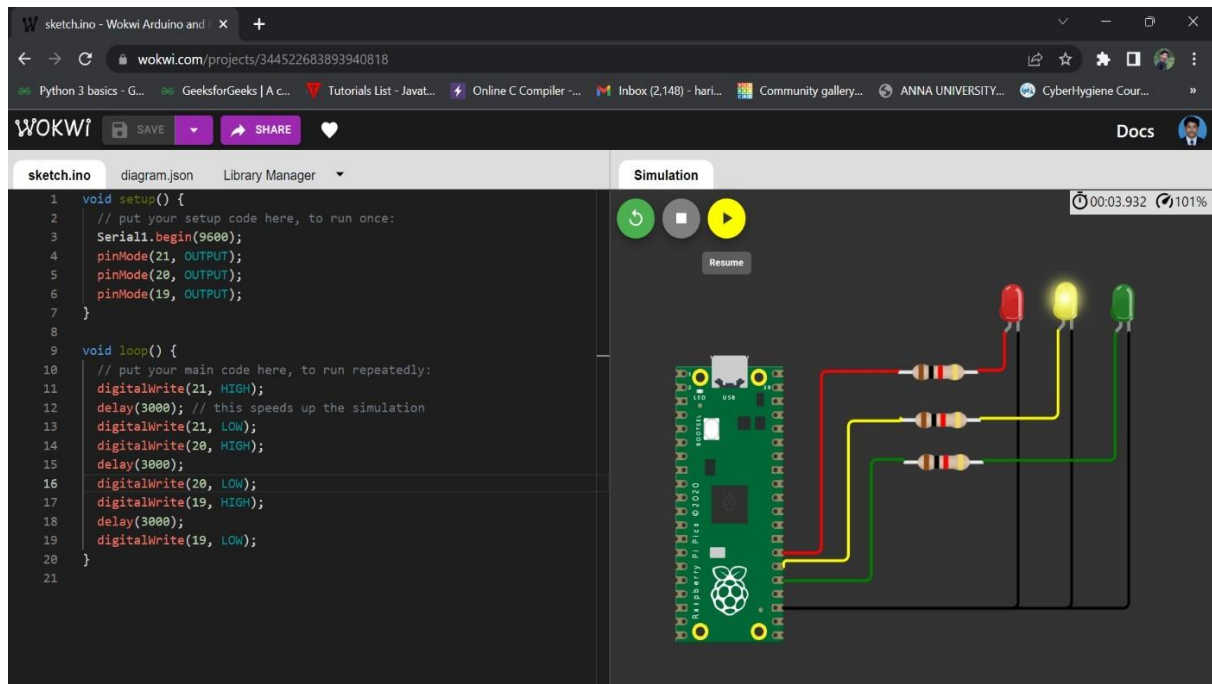
OUTPUT:

TrafficLightsForRaspberryPiBlinking RedLight:

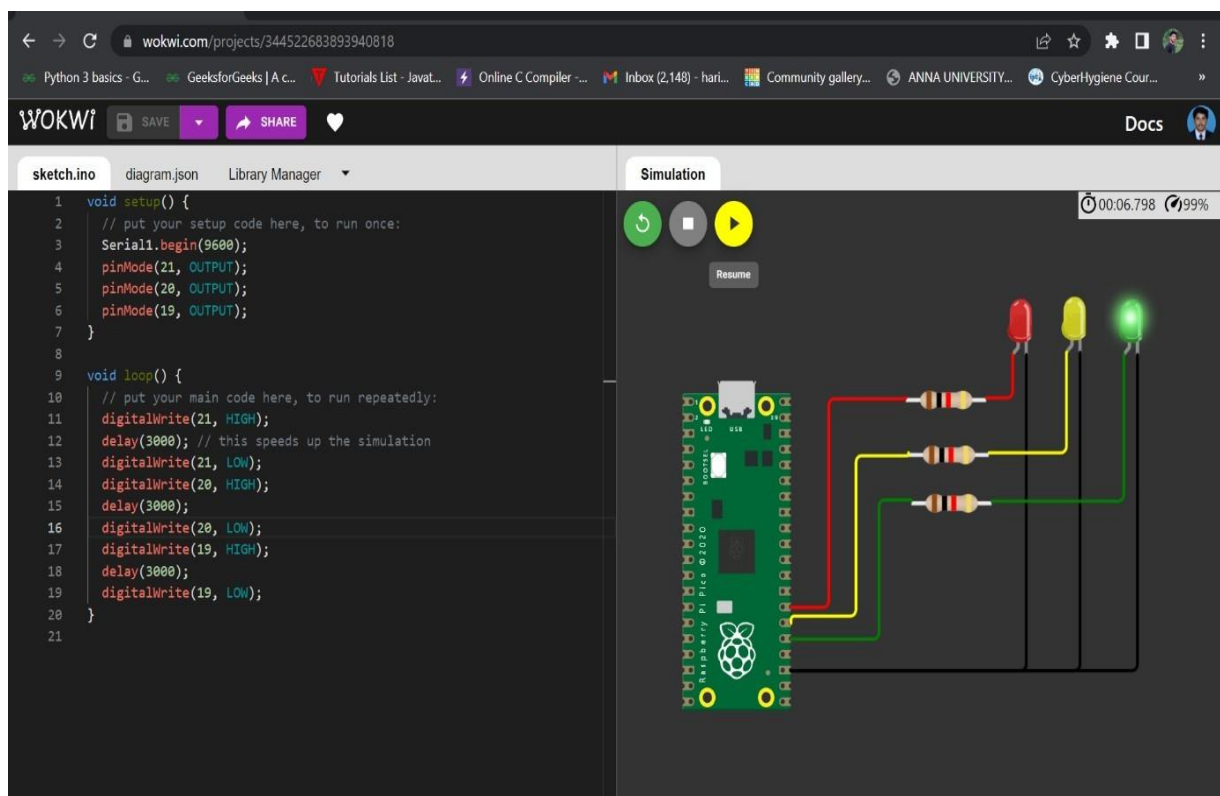


BlinkingYellowLight:





BlinkingGreenLight:



BLINKINGLED:

PROGRAMFORBLINKINGLED

Pythoncode:

```
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(2
  2,HIGH);
  Serial.println("LED
  ON");delay(2000);digitalWrite(2
  2,
  LOW);Serial.println("LEDOFF");d
  elay(2000);
  Serial
}
```

Output: BlinkingLEDForRaspberrypi:

