ASSIGNMENT-3

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TEAM ID: PNT2022TMID15088

MAXIMUM MARKS: 2 Marks

QUESTION 1: Blinking of Traffic lights using Raspberry pi

QUESTION 2: Blinking of LED using Raspberry pi

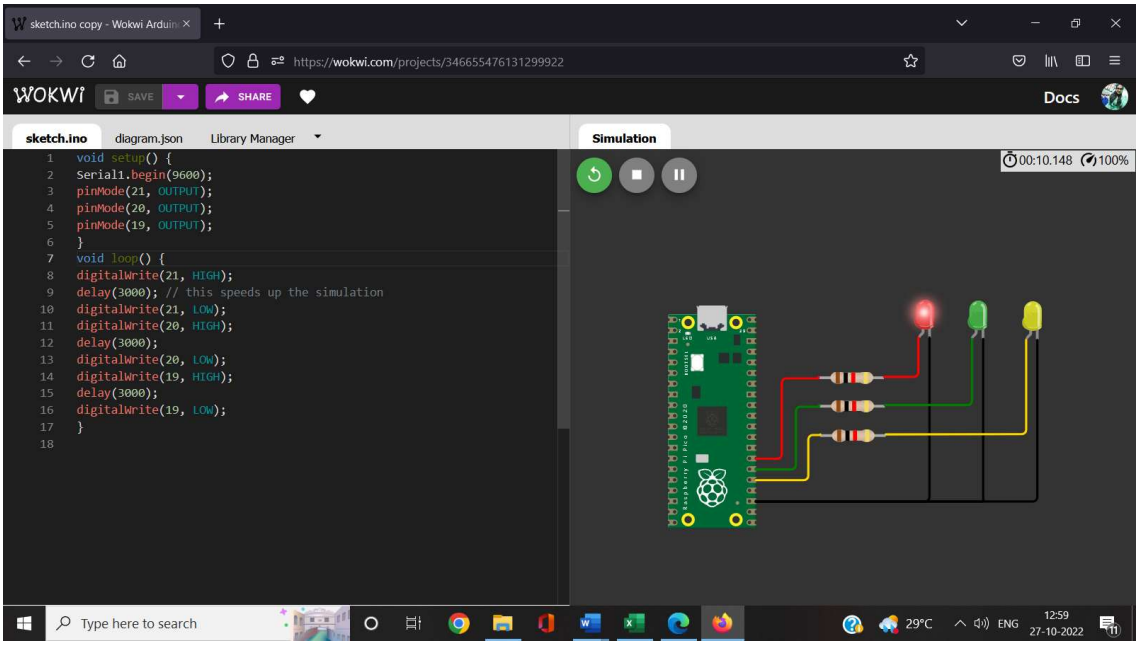
TRAFFIC LIGHTS

PROGRAM:

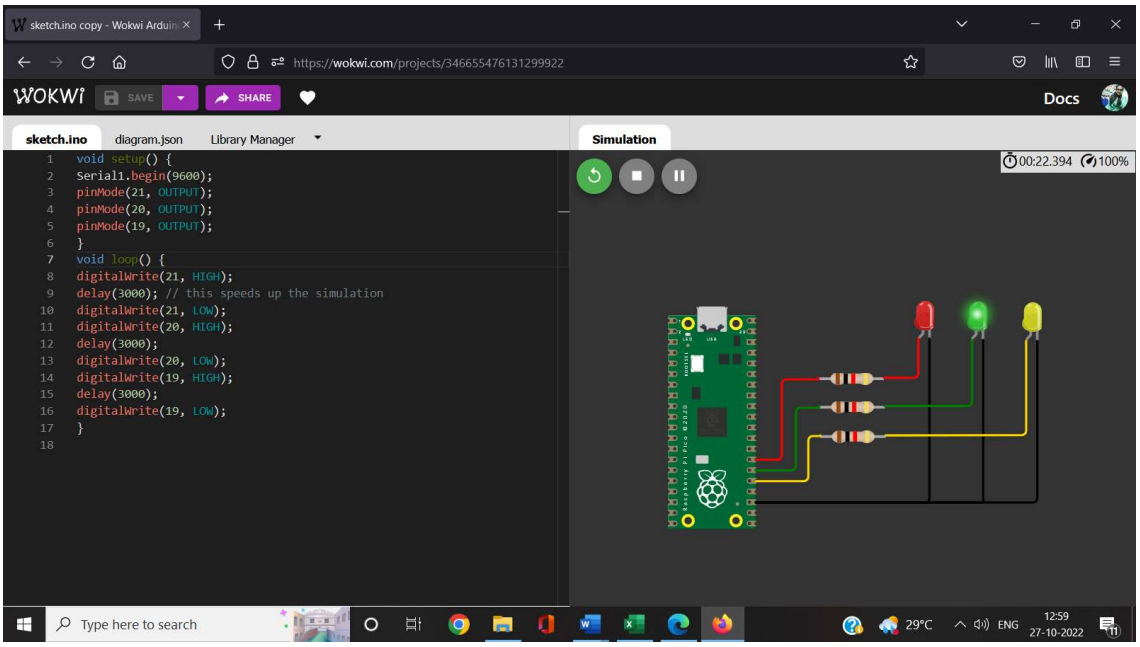
```
void setup() {
Serial1.begin(9600);
pinMode(21, OUTPUT);
pinMode(20, OUTPUT);
pinMode(19, OUTPUT);
}
void loop() {
digitalWrite(21, HIGH);
delay(3000); // this speeds up the simulation
digitalWrite(21, LOW);
digitalWrite(20, HIGH);
delay(3000);
digitalWrite(20, LOW);
digitalWrite(19, HIGH);
delay(3000);
digitalWrite(19, LOW);
}
```

OUTPUT:

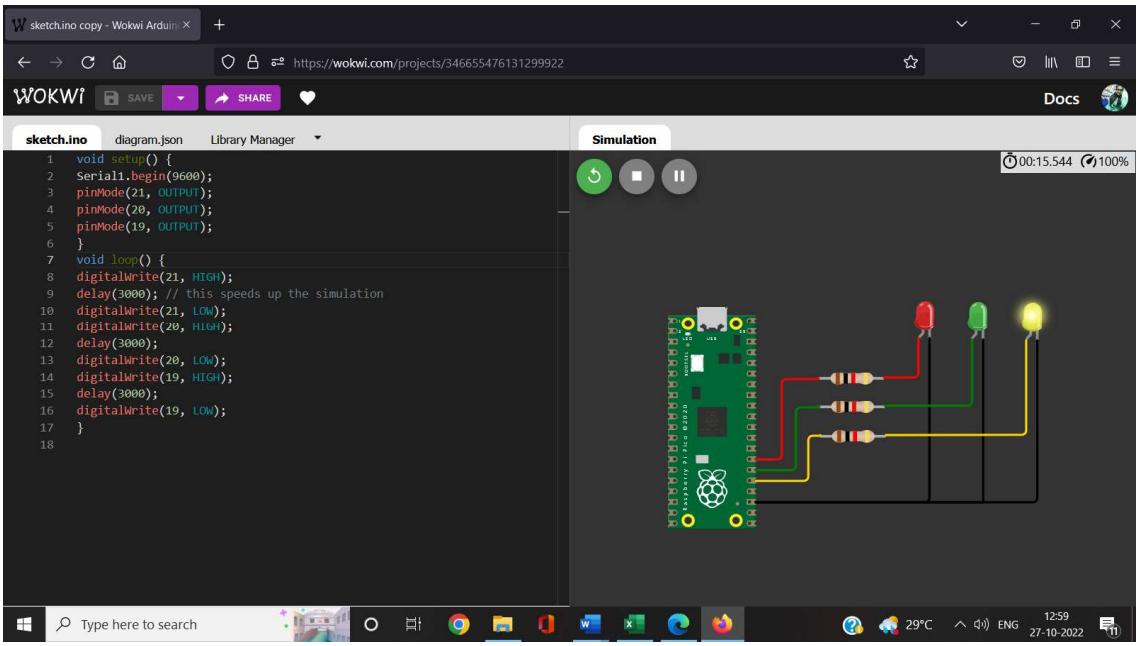
(i)RED LIGHT:



(ii)GREEN LIGHT



(iii)YELLOW LIGHT



BLINKING OF LED

PROGRAM:

```
void setup() {
Serial1.begin(9600);
pinMode(22, OUTPUT);
}
void loop() {
 digitalWrite(22, HIGH);
 Serial.println("LED ON");
 delay(2000); // this speeds up the simulation
 digitalWrite(22, LOW);
 Serial.println("LED OFF");
 delay(2000);
}
```

OUTPUT: