**ASSIGNMENT 3**

|  |  |
| --- | --- |
| **ASSIGNMENT DATE** | **03 OCTOBER 2022** |
| **STUDENT NAME** | **DHARSHINI K** |
| **STUDENT ROLL NUMBER** | **910019106009** |
| **MAXIMUM MARKS** | **2 marks** |

**QUESTION:** WRITE A PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT FOR RASPBERRY PI.

**CODE:**

**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);**

**}**

**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);**

**}**