

Assignment -3

Assignment Date	17.10.2022
Student Name	H. Jeevapriya
Student Roll Number	142219106037
Team ID	PNT2022TMID21741
Maximum Marks	2 Marks

Question-1:

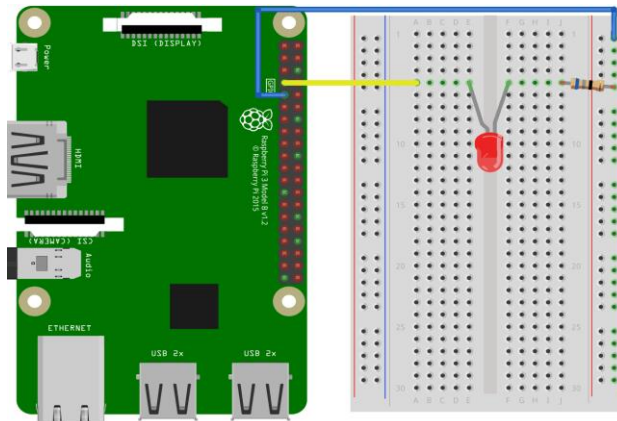
Write a python code for blinking LED and Traffic lights for Raspberry pi.

Blinking LED

CODE:

```
var Gpio = require('onoff').Gpio;
var LED = new Gpio(4, 'out');
var blinkInterval = setInterval(blinkLED, 250);
function blinkLED() {
  if (LED.readSync() === 0) {
    LED.writeSync(1);
  }
  else {
    LED.writeSync(0);
  }
}
function endBlink() {
  clearInterval(blinkInterval);
  LED.writeSync(0);
  LED.unexport();
}
setTimeout(endBlink, 5000);
```

OUTPUT:



Traffic light

CODE:

```
import RPi.GPIO as GPIO
import time
import signal
import sys
```

```
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
while True:
```

```
# Red
GPIO.output(9, True)
time.sleep(3)
```

```
# Red and amber
GPIO.output(10, True)
time.sleep(1)
```

```
# Green
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, True)
time.sleep(5)
```

```
# Amber
GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
```

```
# Amber off (red comes on at top of loop)
GPIO.output(10, False)
```