Assignment -3

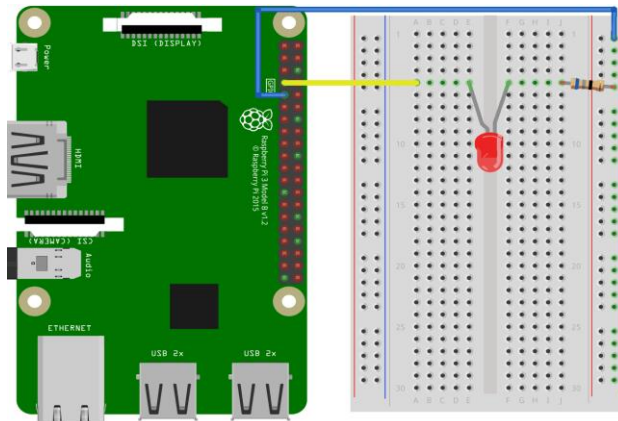|	
Assignment Date	17.10.2022
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Student Roll Number	142219106039
Team ID	PNT2022TMID21741
Maximum Marks	2 Marks

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)
```