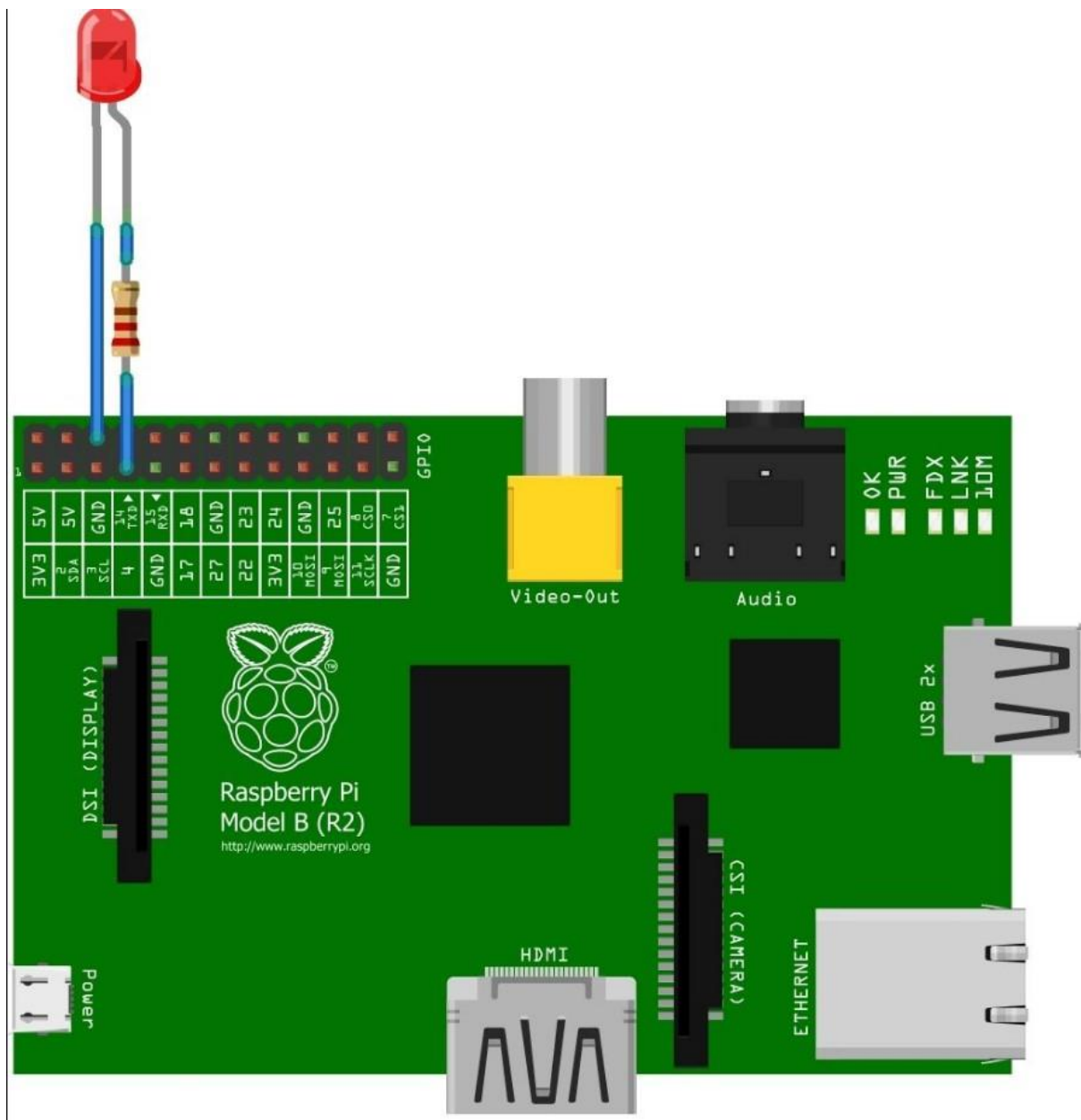# ASSIGNMENT-3

Write a python code for blinking led and traffic lights for raspberry pi.

## 1)**BLINKING LED**

Circuit Diagram:

```
import RPi.GPIO as GPIO
import time
LED_PIN = 16
GPIO.setmode(GPIO.BOARD)
GPIO.setup(LED_PIN, GPIO.OUT)
for x in range (0,1):
    GPIO.output(LED_PIN, True)
    time.sleep(1)
    GPIO.output(LED_PIN, False)
    time.sleep(1)
GPIO.cleanup()
```
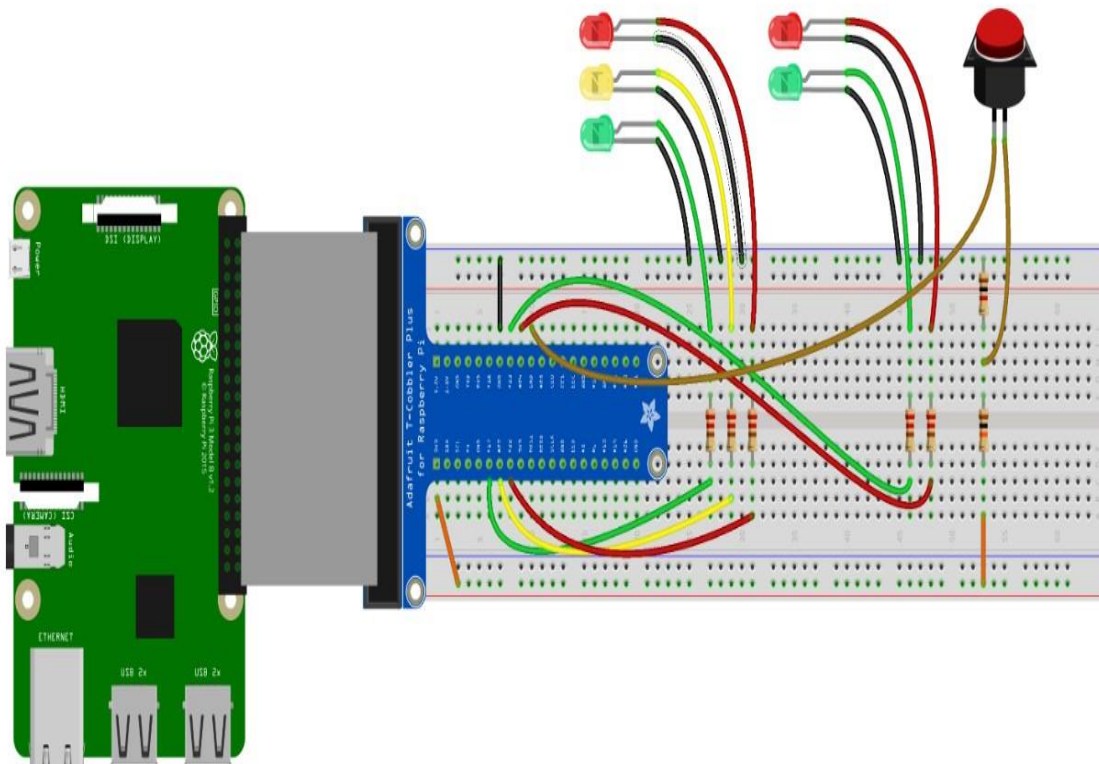
## 2) **TRAFFIC LIGHTS**

Circuit Diagram:

Code:

```python
import RPi.GPIO as GPIO
import time
import sys
LED_PIN1 = 14
LED_PIN2 = 15
LED_PIN3 = 16
GPIO.setmode(GPIO.BOARD)
GPIO.setup(LED_PIN1, GPIO.OUT)
GPIO.setup(LED_PIN2, GPIO.OUT)
GPIO.setup(LED_PIN3, GPIO.OUT)
for x in range (0,3):
    GPIO.output(LED_PIN1, True)
    time.sleep(1)
    GPIO.output(LED_PIN1, False)
    GPIO.output(LED_PIN2, True)
    time.sleep(1)
    GPIO.output(LED_PIN2, False)
    GPIO.output(LED_PIN3, True)
    time.sleep(1)
    GPIO.output(LED_PIN3, False)
GPIO.cleanup()
sys.exit(0)
```