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ASSIGNMENT - III

Python code for blinking LED for Raspberry pi:

```
import RPi.GPIO as GPIO
import time
LED_PIN = 17
GPIO.setmode(GPIO.BCM)
GPIO.setup(LED_PIN, GPIO.OUT)
while True:
    GPIO.output(LED_PIN,
                GPIO.HIGH)
    time.sleep(1)
    GPIO.output(LED_PIN,
                GPIO.LOW)
    time.sleep(1)
GPIO.cleanup()
```

```
from gpiozero import LED

red = LED(22)
amber = LED(27)
green = LED(17)

red.blink(1, 1)
amber.blink(2, 2)
green.blink(3, 3)
```

Python code for traffic lights for Raspberry pi:

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```