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ASSIGNMENT 03
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Python code for blinking LED and traffic light for Raspberry pi
import RP1.GPIO as GP10
import time
GPIO. setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT) #Green LED
GPIO.setup(11, GPIO.OUT)#Yellow LED
GPIO.setup(13, GPIO.OUT) #Red LED
GPIO.setup (15,\ GP10.IN,\ pull\_up\_down=GPIO.PUD\_UP) \#Button
def turn_on(pin, seconds):
GPIO.output (pin,GPIO.HIGH)
time.sleep(seconds)
def turn_off (pin, seconds):
GPIO.output (pin, GPIO.LOW)
time.sleep(seconds)
try:
while True:
button_state=GPIO.input (15)
if button_state== True:
turn_on(13,2)
tum_off(13,.1)
turn_on(7,4)
turn_off(7,.11)
turn_on(11,1)turn_off(11,1)else:
if button_state== False:
GPI0.output (7,GPI0.LOW)
GPIO.output(11,GPIO.LOW)
GP10.output (13,GPI0.LOW)
time.sleep(.1)
```

except KeyboardInterrupt:

GPIO.cleanup()

print("Traffic Light Sequence Done")