ASSIGNMENT-III

Assignment Date	07 October 2022
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QUESTION:

Write a python code for blinking LED and traffic light for Raspberry pi

BLINKING LED:

```
import RPi.GPIO as GP from time import sleep
GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)
while True:
    GP.output(8, GPIO.HIGH)
print("The LED is ON")
    sleep(2)
    GP.output(8, GPIO.LOW)
print("The LED is OFF")
sleep(2)
```

TRAFFIC LIGHT:

```
import RPi.GPI0 as GPI0
import time

GPI0.setmode(GPI0.BOARD)

GPI0.setup(7,GPI0.OUT)

GPI0.setup(11,GPI0.OUT)

GPI0.setup(13,GPI0.OUT)

GPI0.setup(15,GPI0.IN,pull_up_down_=GPI0.UP)

def turn_on(pin,seconds):

GPI0.output(pin.GPI0.HIGH) time.sleep(seconds)

def turn_off(pin,seconds):
```

```
GPI0.output(pin.GPI0.LOW) time.sleep(seconds)
try:
while True:
button_state=GPI0.input(15)
if button_state==True:
turn_on(13,2)
turn_off(13,.1)
turn_on(7,4)
turn_off(7,.1)
turn_on(11,1)
turn_off(11,.1)
else:
if button_state==False:
GPI0.output(7,GPI0.LOW)
GPI0.output(11,GPI0.LOW)
GPI0.output(13,GPI0.LOW) time.sleep(.1)
except KeywordInterrupt:
GPIO.cleanup()
print("TRAFFIC LIGHT SEQUENCE DONE")
```