ASSIGNMENT3

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| **ASSIGNMENTDATE** | **3OCTOBER2022** |
| **STUDENTNAME** | **M.manojraj** |
| **STUDENTROLLNUMBER** | **810419106004** |
| **MAXIMUMMARKS** | **2MARK** |

QUESTION:WRITE APYTHONCODE FORBLINKINGLEDANDTRAFFICLIGHTFORRASPBERRYPI.

CODE**:**

importtime

import RPi.GPIO as GPIOGPIO.setmode(GPIO.BOARD)GPIO.setup(10,GPIO.OUT)

while True:GPIO.output(10,True)time.sleep(1)GPIO.output(10,False)time.sleep(1)

fromgpiozeroimportButton,TrafficLights,Buzzerbuzzer =Buzzer(15)

button=Button(21)

lights=TrafficLights(25,8,7)

while True:button.wait\_for\_press()light.green.on()sleep(1)lights.amber.on()sleep(1)

lights.red.on()sleep(1)lights.off()while True:lights.on()buzzer.off()

button.wait\_for\_press()lights.off()

buzzer.on()button.wait\_for\_release()whileTrue:

lights.blink()buzzr.beep()button.wait\_for\_press()lights.off()

buzzer.off()button.wait\_for\_release()