IBM SMART INTERNZ - NALAIYA THIRAN - ASSIGNMENT 3

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1. BLINKING LED USING RASPBERRY PI:

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now
GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and
set initial value to low (off)

while True: # Run forever
 GPIO.output(8, GPIO.HIGH) # Turn on
 sleep(1) # Sleep for 1 second
 GPIO.output(8, GPIO.LOW) # Turn off
 sleep(1) # Sleep for 1 second
```

2. TRAFFIC LIGHTS USING 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()
```