IBM SMART INTERNZ - NALAIYA THIRAN - ASSIGNMENT 3

NAME:NIVETHA.K   ROLLNO:7179KCTKCTKCTKCTKCTKCT19BEC054
MEMBERS:
    1.YALINI.P   ROLLNO:7179KCTKCTKCTKCTKCTKCT19BEC057
    2.JANARANJANI.S   ROLLNO:7179KCTKCTKCTKCTKCTKCT19BEC056
    3.VIVEKA.R   ROLLNO:7179KCTKCTKCTKCTKCTKCT19BEC058

1. BLINKING LED USING RASPBERRYPI:

```python
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 RASPBERRYPI:

```python
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()
```