

Assignment-3

720319104024 – PHILOMINA SYNDRIA ARUJA

Python code for blinking LED

```
Import time
Import RPi . GPIO as GPIO
GPIO . setmode(GPIO.BOARD)
GPIO.setup(11, GPIO.OUT)
while true:
    GPIO.output(11, True)
    time.sleep(1)
    GPIO.output(11,False)
    Time.sleep(1)
```

Python code for traffic lights for Raspberry Pi

```
Import RPi.GPIO as GPIO
Import time
Import signal
Import sys
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO . OUT)
GPIO.setup(10, GPIO . OUT)
GPIO.setup(11, GPIO . OUT)
def alllightsoff(signal,frame):
    GPIO.output(9,false)
```

```
GPIO.output(10,false)

GPIO.output(11,false)

GPIO.cleanup()

Sys.exit(0)

Signal.signal(signal.SIGINT,alllightsoff)

while true:

#red

    GPIO.output(9,true)

    time.sleep(3)

#red and amber

    GPIO.output(10,true)

    time.sleep(1)

#green

    GPIO.output(9,false)

    GPIO.output(10,false)

    GPIO.output(11,true)

    time.sleep(5)

#amber

    GPIO.output(11,false)

    GPIO.output(10,true)

    time.sleep(2)

#amber off

    GPIO.output(10,false)
```

