

Assignment -3

Python Programming

Assignment Date	05 October 2022
Student Name	VARALAKSHMI .S
Student Roll Number	510119106011
Maximum Marks	2 Marks

Question-1:

Write python code for Blinking LED and Trafficlights for Raspberrypi .

Solution:

BLINKING LED

CODE

```
from gpiozero import LED
from time import sleep

led = LED(23)

while True:
    led.on()
    print("LED ON")
    sleep(1)
    led.off()
    print("LED OFF")
    sleep(1)
```

TRAFFICLIGHTS

CODE

```
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)
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, False)
    GPIO.cleanup()
    sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
while True:
    GPIO.output(9, True)
    time.sleep(3)
    GPIO.output(10, True)
    time.sleep(1)
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)
    GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)
```