ASSIGNMENT – 3

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OBJECTIVE:-

To write python code for blinking LED and Traffic lights for Raspberry pi

CODE:-

```
#BLINKING OF LED FOR RASPBERRY Pi

import RPi.GPIO as GPIO

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True:

        GPIO.output(8, GPIO.HIGH)

        sleep(1)

        GPIO.output(8, GPIO.LOW)

        Sleep(1)


#TRAFFIC LIGHTS CODE FOR RASPBERRY Pi

import RPi.GPIO as GPIO

import time

import signal

import sys

GPIO.setmode (GPIO.BCM)

GPIO.setup (9, GPIO.OUT)
```

```python
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.exist(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)

        GPIO.output(10, False)
```