ASSIGNMENT – 3

PYTHON PROGRAMMING WITH RASPBERRY PI

Assignment Date	01 October 2022
Student Name	Kishore R
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Maximum Marks	2 Marks

Question:

Write python code for blinking LED and Traffic lights for Raspberry pi.

Code:

Blinking LED:

```
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:

```
from gpiozero import Button,TrafficLights,Buzzer

from time import sleep
```

```python
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25,8,7)

while True:
    button.wait_for_press()
    buzzer.on()
    lights.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```