

ASSIGNMENT-3

Assignment date	07 October 2022
Student name	Janani S
Student Roll number	510119205005
Maximum marks	2 marks

QUESTION-1

Write a python code for traffic lights using Raspberry pi.

CODING:

```
from gpiozero import LED, Button
from time import sleep
```

```
red = LED(18)
amber = LED(2)
green = LED(17)
button = Button(3)
```

```
print("Press the button when you want to cross.")
```

```
green.on()
amber.off()
red.off()
```

```
while True:
    print("Wait")
    button.wait_for_press()
    green.off()
    amber.on()
    sleep(5)
    amber.off()
    red.on()
```

```
print("Cross now.")
sleep(10)
amber.on()
sleep(5)

green.on()
amber.off()
red.off()
```

QUESTION:2

Write a python for blinking LED using Raspberry pi.

CODING:

```
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)
```