

IBM ASSIGNMENT-3

Assignment Date	05 October 2022
Student Name	J.Manoj
Student Roll Number	510119104013
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)
```

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)
```