Assignment -3

Python Programming

Assignment Date	1 October 2022
Student Name	XAVIER ANTONY AMILDEN
Maximum Marks	2 Marks

Question-1:

Write a python code for Blinking LED for Raspberry Pi.

```
import RPi.GPIO as GPIO

from time import sleep

GPIO.setmode(GPIO.BCM)

GPIO.setup(22, GPIO.OUT)

while True:

    GPIO.output(22, GPIO.HIGH)

    sleep(1)

    GPIO.output(22, GPIO.LOW)

    sleep(1)
```

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```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BCM)
GPIO.setup(22, GPIO.OUT)
while True:
    GPIO.output(22, GPIO.HIGH)
    sleep(1)
    GPIO.output(22, GPIO.LOW)
    sleep(1)
```

Question-2:

Write a python code for Traffic Lights Simulation for Raspberry Pi.

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BCM)
RED,YELLOW,GREEN=9,10,11
GPIO.setup(RED, GPIO.OUT)
GPIO.setup(YELLOW, GPIO.OUT)
GPIO.setup(GREEN, GPIO.OUT)
while True:
    # Red Signal
    GPIO.output(RED, HIGH)
    sleep(55)
    # Yellow Signal
    GPIO.output(RED, LOW)
    GPIO.output(YELLOW, HIGH)
    sleep(5)
    # Green Signal
    GPIO.output(YELLOW, LOW)
    GPIO.output(GREEN, HIGH)
    sleep(30)
GPIO.output(GREEN, LOW)
```

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BCM)
RED,YELLOW,GREEN=9,10,11
GPIO.setup(RED, GPIO.OUT)
GPIO.setup(YELLOW, GPIO.OUT)
GPIO.setup(GREEN, GPIO.OUT)
while True:
    # Red Signal
    GPIO.output(RED, HIGH)
    sleep(55)
    # Yellow Signal
    GPIO.output(RED, LOW)
    GPIO.output(YELLOW, HIGH)
    sleep(5)
    # Green Signal
    GPIO.output(YELLOW, LOW)
    GPIO.output(GREEN, HIGH)
    sleep(30)
    GPIO.output(GREEN, LOW)
```