Assignment-3

Python Programming

Assignment Date	3 october 2022
Student Name	Mathivaanan A
Student Register Number	73171906008
Maximum Marks	2 Marks

Question-1:

Build a Python Code For Blinking LED and Traffic Lights For Raspberry Pi.

Solution:

```
Import  RPi.GPIO as
GPIOImport time
GPIO.setwarnings(Fals
e)

#set up
variables
Green=11
Yellow=10
Red=9

#set up the numbering
scheme
GPIO.setmode(GPIO.BCM)
```

```python
#set the mode on the pins to
OUTGPIO.setup(red,
GPIO.OUT) GPIO.setup(green,
GPIO.OUT) GPIO.setup(yellow,
GPIO.OUT)

#initially turn the lights
offGPIO.setup(green,
False)
GPIO.setup(yellow,Fals
e) GPIO.setup(red,False)

#trun green on for 3
seconds
GPIO.output(green,True)
Time.sleep(3)

#trun yellow on for 3
seconds
GPIO.output(green,False)
GPIO.output(yellow,False)
Time.sleep(3)

#trun red on for 3
seconds
GPIO.output(yellow,Fals
e)
GPIO.output(red,False)
Time.sleep(10)
```