Assignment-3

Python Programming

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| AssignmentDate | 9 October 2022 |
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Question-1:

WritepythoncodeforblinkingLEDandTrafficlightsforRaspberrypi.

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| **Solution:** |
| **importRPi.GPIOasGPIO import time**  **importsignal importsys**  **# Setup GPIO.setmode(GPIO.BCM) GPIO.setup(9, GPIO.OUT) GPIO.setup(10,GPIO.OUT) GPIO.setup(11,GPIO.OUT)**  **#Turnoffalllightswhenuserendsdemo defallLightsOff(signal, frame):**  **GPIO.output(9, False) GPIO.output(10,False) GPIO.output(11,False) GPIO.cleanup() sys.exit(0)**  **signal.signal(signal.SIGINT,allLightsOff) # Loop forever**  **while True:**  **# RedGPIO.output(9,True) time.sleep(3)**  **# Red and amber GPIO.output(10,True) time.sleep(1)**  **# Green** |

GPIO.output(9, False) GPIO.output(10,False) GPIO.output(11, True) time.sleep(5)

# Amber GPIO.output(11,False) GPIO.output(10, True) time.sleep(2)

#Amberoff(redcomesonattopofloop) GPIO.output(10, False)