##### **ASSIGNMENT -3**

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| Assignment Date | 10 October 2022 |
| Student Name | Merlin alfina.M |
| Student Roll Number | 710419106020 |
| Maximum Marks | 2 Marks |

**Question:**

Write a python code for blinking LED and Traffic lights for Raspberry pi.

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| **Solution:** |
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| **For LED:**  import RPi.GPIO as  GPIO from time import sleep  GPIO.setwarnings (False)  GPIO.setmode(GPIO.BOARD)  GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW  while True:  GPIO.output(8,GPIO.HIGH)  sleep(1)  GPIO.output(8,GPIO.LOW)  sleep(1)  **For TRAFFIC LIGHTS :**  import Rpi.GPIO as GPIO  import time  import signal  import sys  GPIO.setmode(GPIO.BCM) GPIO.setup(9,GPIO.OUT) GPIO.setup(10,GPIO.OUT) GPIO.setup(11,GPIO.OUT)  def allLightsOff(signal,framer): GPIO.output(9,False) GPIO.output(10,False) GPIO.output(11,False)  GPIO.cleanup()  sys.exit(0) signal.signal(signal.SIGINT,allLightsOff)  while True:  #Red  GPIO.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)  #Amber off(red comes on at top of loop) GPIO.output(10,False) |