

Assignment -3

Python Program

Assignment Date	30 September 2022
Student Name	Mr. Vishva
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Maximum Marks	2 Marks

Question-1:

Build a python code, For blinking LED and Traffic lights for Raspberry pi.

Program:

```
import sys

import time

import signal

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO.OUT)

GPIO.setup(10,

GPIO.OUT)

GPIO.setup(11,

GPIO.OUT)

def allLightsOff(signal,

frame):

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 yellow
GPIO.output(10, True)
time.sleep(1)
# Green
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, True)
time.sleep(5)
# yellow
GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
# yellow off (red comes
on at top of loop)
GPIO.output(10, False)
```