

Assignment -3

Python Programming

Assignment Date	03 October 2022
Student Name	AKSHAYA V T
Student Roll Number	962319104013
Maximum Marks	2 Marks

Question-1

Create a raspberry pi python code for simulating a traffic light signal

Solution :

```
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)
while True:
    # red
    GPIO.output(17, True)
    time.sleep(3)
    # yellow
    GPIO.output(27, True)
    time.sleep(2)
    # green
    GPIO.output(17, False)
    GPIO.output(27, False)
    GPIO.output(11, True)
    time.sleep(5)
    # yellow
    GPIO.output(11, False)
    GPIO.output(27, True)
    time.sleep(2)

    GPIO.output(10, False)
```

Question-2:

Create a raspberry pi Python program to make an led blink

Solution :

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output(22, GPIO.HIGH)
    sleep(1)
    GPIO.output(22, GPIO.LOW)
    sleep(1)
```