Assignment -3
Python Code for Blinking led &
Traffic lights

Assignment Date	7 OCTOBER 2022
Student Name	ARUN.A
Student Roll Number	513419106005
Maximum Marks	

Question-1:

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

```
Solution
#BLINKING
LED
  import time
  import RPi.GPIO as GPIO
  GPIO.setmode(GPIO.BCM)
  GPIO.setup(18, GPIO.OUT)
  while True:
        GPIO.output(18,True) # Turn
        on Ledtime.sleep(1)
        GPIO.output(18,False) # Turn
        off Ledtime.sleep(1)
#TRAFFIC LIGHTS
import RPi.GPIO as
GPIOimport time
import
signal
import sys
GPIO.setmode(GPIO.B
CM)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
```

```python
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)
```

```python
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)
```