## Assignment -3

## Python Code for Blinking led & Traffic lights

Assignment Date	7 OCTOBER 2022
Student Name	RAMYA H
Student Roll Number	513419106028
Maximum Marks	

## Question-1:

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

```
Solution
#BLINKING LED—RAMYA
 import time import
RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setup(18, GPIO.OUT)
while True:
        GPIO.output(18,True) # Turn on Led
time.sleep(1)
       GPIO.output(18,False) # Turn off Led
time.sleep(1)
#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, 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 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)
```