## Assignment -3

## **Python Programming**

Assignment Date	08 October 2022
Student Name	A .Asmitha
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Maximum Marks	2 Marks

## Question:

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

## **Solution**

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)

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)
```