## Assignment -3

## **Python Programming**

Assignment Date	03 October 2022
Student Name	S.Eashwar periya karuppan
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Maximum Marks	2 Marks

#### Question-1:

Write python code for blinking led and traffic lights for raspberry pi.

# **Solution:** For blinking led: import RPi.GPIO as GPIO import time ledPin = 22 def setup(): GPIO.setmode(GPIO.BOARD) GPIO.setup(ledPin, GPIO.OUT) GPIO.output(ledPin, GPIO.LOW) def loop(): while True: print 'LED on' GPIO.output(ledPin, GPIO.HIGH) time.sleep(1.0) print 'LED off' GPIO.output(ledPin, GPIO.LOW) time.sleep(1.0) def endprogram(): GPIO.output(ledPin, GPIO.LOW) GPIO.cleanup() if \_\_name\_\_ == '\_\_main\_\_': setup() try: loop() except KeyboardInterrupt: endprogram()

## For traffic light:

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
      button.wait_for_press()
      buzzer.on()
      light.green.on()
      sleep(1)
      lights.amber.on()
      sleep(1)
      lights.red.on()
      sleep(1)
      lights.off()
      buzzer.off()
```