Assignment 3

Question: -

Write a python code for Blinking LED and Traffic lights for Raspberry pi.

LED Blinking: -

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()
```

TRAFFIC LIGHT PYTHON CODE:-

```
from giozero import LED
from time import sleep
red=LED(17)
yellow=LED(22)
green=LED(27)
While True:
red.on()
sleep(15)
red.off()
sleep(1)
yellow.on()
sleep(10)
yellow.off()
sleep(1)
green.on()
sleep(10)
green.off()
```

sleep(1)