ASSIGNMENT -3

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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)

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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)