Assignment -3

Python Programming for Raspberry pi

Assignment Date	13October 2022
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

Note: you are allowed to use web search and complete the assignment.

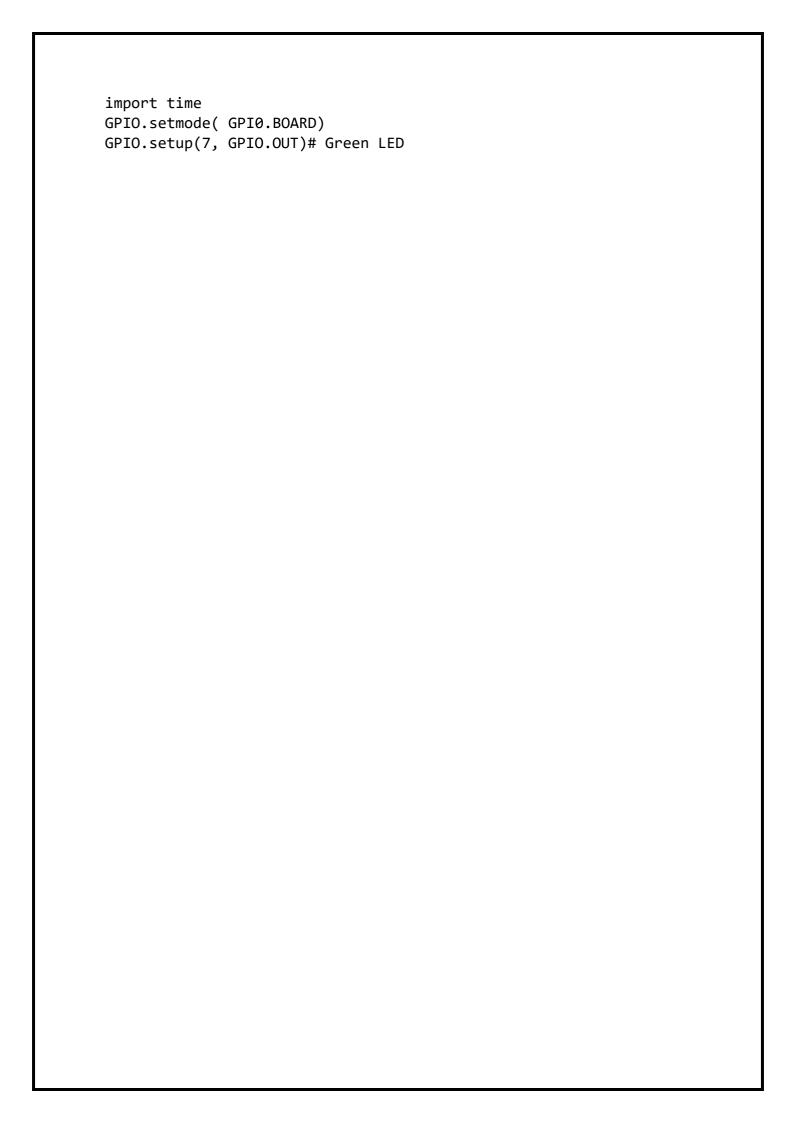
SOLUTION:

PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI

Led = LED(23)
While True:
 Led.on()
 Print('LED ON')
 Sleep(1)
 Led.off()
 Print('LED OFF')
 Sleep(1)

PYTHON CODE FOR TRAFFIC LIGHTS FOR RASPBERRY PI

import RPi.GPIO as GPIO



```
GPIO.setup(11,GPIO.0UT)#Yellow LED
GPIO.setup(13,GPI0.0UT)#Red LED
GPI0.setup(15, GPI0.IN, pull_up_down=GPI0.PUD UP) #Button
def turn on (pin,seconds):
def GPIO.output (pin, GPIO . HIGH)
time.sleep(pin, seconds)
def trun of(pin, seconds)
GPI0.output (pin, GPI0 .LOW)
time.sleep(seconds)
try:
while True:
  Button State= GPI0.input(15)
If button State= True:
      turn on (13,2)
      turn off(13,.1)
      turn on (7,4)
      turn off(7, .1)
      turn on(11,1)
      turn off(11,.1)
else:
  if button state = False:
     GPIO.output(7,GPIO.LOW)
     GPIO.output(11,GPIO.LOW)
     GPIO.output(13,GPIO.LOW)
     time.sleep(.1)
except Keyboard Interrupt:
 GPI0.cleanup()
```