ASSIGNMENT - 3

PYTHON PROGRAMMING

Question:

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Write python code for blinking LED and Traffic lights for
Raspberry pi.
Blinking Led:
Import RPI.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUĽ, initial=GPIO.LOW)
while True:
      GPIO.output(7, GPIO.HIGH)
      print("LED on")
      sleep (1)
      GPIO.output(7, GPIO.LOW)
      print("LED off")
      sleep(1)
Traffic Light:
import RPi.GPIO as GPIO
import time
try:
deflightTraffic (led1, led2, led3, delay):
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GPIO.output(led1, 1)Print("GREEN") time.sleep(delay)
GPIO.output(led1, 0)
GPIO.output(led2, 1) Print("YELLOW")
time.sleep(delay)
GPIO.output(led2, 0) GPIO.output(led3, 1)
Print("RED") time.sleep(delay)
OGPIO.output(led3, 0)
GPIO.setmode(GPIO.BCM) button 19
GPIO.setup(button, GPIO.IN, pull_up_down-GPIO.PUD_UP)
ledGreen - 16
led Yellow 12
ledRed-23
GPIO.setup(ledGreen, GPIO.OUĽ)
GPIO.setup(led Yellow, GPIO.OUĽ)
GPIO.setup(ledRed, GPIO.OUĽ) while true:
input_state= GPIO.input(button)
if input state-False:
print('Button Pressed') light Traffic(ledGreen, led Yellow, ledRed,1)
else:
GPIO.output(led Green, 0)
GPIO.output(ledYellow, 0) GPIO.output(ledRed, 0)
except KeyboardInterrupt:
print "You've exited the program"
finally:
GPIO.cleanup()
```