Assignment -3

Python Programming

Assignment Date	02 October 2022	
Student Name	Goutham G	
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Maximum Marks	2 Marks	

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi

lights.off()
buzzer.off()

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Solution:
Blinking LED
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time
module
GPIO.setwarnings(False) # Ignore warning for now
GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an
output pin and set initial value to low (off)
while True: # Run forever
GPIO.output(8, GPIO.HIGH) # Turn on
sleep(1) # Sleep for 1 second
GPIO.output(8, GPIO.LOW) # Turn off
sleep(1) # Sleep for 1 Second
Traffic lights
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)
```