Assignment -3

Python Programming

Assignment Date	02October 2022	
Student Name	Mr. ARUNPRASATH K	
Student Roll Number	GCTC1914107	
Maximum Marks	2 Marks	

Question-1:

Write a python code for led blinking in raspberry pi

SOLUTION:

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

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Question-2: Write a python code for traffic light in raspberry pi SOLUTION: 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) lights.off() buzzer.off() **assignment3.py - C/Users/ARUN YIKRAM/AppData/Local/Programs/Python/Python310/assignment3.py (3.10.1)* File Edit Format Run Options Window Help from gpiozero import Button, TrafficLights, Buzzer from time import sleep buzzer = Buzzer(15) button = Button(21) lights = TrafficLights(25, 8, 7) lights = reason. while True: button.wait_for_press() buzzer.on() ilight.green.on() sleep(1) lights.amber.on() sleep(1) isleep(1) isleep(1) isleep(1) isleep(1) ights.off() buzzer.off()