Assignment -3 Python Programming

|  |  |
| --- | --- |
| Assignment Date | 28 September 2022 |
| Student Name | Mr.PRAVEEN RAJ S R |
| Student Roll Number | CITC1904103 |
| 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.

python program to blink a Led for Raspberry pi

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

Python program

for traffic light for

Raspberry pi

from gpiozero import Buzzer from gpiozero import Button from gpiozero import LED from time import sleep button = Button (21) buzzer = Buzzer (15) redled = LED(25) yellowled = LED(8) greenled = LED(7)

while True: if button.is\_pressed:

redled.on()

buzzer.on() sleep(2) redled.off() buzzer.off() yellowled.on() sleep(2) yellowled.off() greenled.on() sleep(2) greenled.off() break