Assignment -3 Python Programming

Assignment Date	02 October 2022
Student Name	Vignesh J
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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 1 ow (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 for 1 second sleep(1) 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

GPIO.output(8, GPIO.HIGH) # Turn on

lo w (off) while True: # Run forever

sleep(1) # Sleep for 1 second GPIO.output(8,

GPIO.LOW) # Turn off sleep(1) # Sleep for

1 second

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()