Assignment -3

Python Programming

Assignment Date	20 October 2022
Student Name	Gopika k
Student Roll Number	513419106010
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).

Solution:-

Python Code for 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

Python code for Traffic Lights:

from gpiozero import LED from time import sleep red = LED(22)amber = LED(27)green = LED(17) while True: red.on() sleep(1) amber.on() sleep(1) green.on() sleep(1) red.off() sleep(1) amber.off() sleep(1) green.off()