Assignment -3

Python Programming

Assignment Date	29 September 2022
Student Name	Mystica C
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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 GPO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPO.setwarnings(False) # Ignore warning for now

GPO.setmode(GPO.BOARD) # Use physical pin numbering

GPO.setup(8, GPO.OUT, initial=GPO.LOW) # Set pin 8 to be an output pin and set initial value tolow (off)

while True:

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

sleep(1) # Sleep for 1 second

GPO.output(8, GPO.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()