Assignment -2

Python Program

Assignment Date	30 September 2022
Student Name	Mr. Shiyam benith
Student Roll Number	621319205042
Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Program:

import sys import time import signal import RPi.GPIO as GPIO GPIO.setmode(GPIO.BCM) GPIO.setup(9, GPIO.OUT) GPIO.setup(10, GPIO.OUT) GPIO.setup(11, GPIO.OUT) def allLightsOff(signal, frame): GPIO.output(9, False) GPIO.output(10, False) GPIO.output(11, False) GPIO.cleanup() sys.exit(0) signal.signal(signal.SIGINT, allLightsOff) while True: # Red GPIO.output(9, True) time.sleep(3) # Red and yellow GPIO.output(10, True) time.sleep(1) # Green GPIO.output(9, False) GPIO.output(10, False) GPIO.output(11, True) time.sleep(5) # yellow GPIO.output(11, False) GPIO.output(10, True) time.sleep(2) # yellow off (red comes on at top of loop) GPIO.output(10, False)