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---------------------------------------------------------------------Practical 1: LED & Raspberry Pi Connectivity

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import RPi.GPIO as g

import time

g.setmode(g.BOARD)

g.setup(3,g.OUT)

g.setup(5,g.OUT)

g.output(3,True) # Instead of True-> g.HIGH or 1

time.sleep(3)

g.output(3,False) # Instead of False-> g.LOW or 0

g.output(3,True)

time.sleep(3)

g.output(3,False)

g.cleanup()

---------------------------------------------------------------------

Practical No.2

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import Rpi.GPIO as g

import time

g.setmode(g.BOARD)

g.setup(12,g.IN)

g.setup(22,g.OUT)

while True:

var=g.input(12)

print(var)

if var==0:

g.output(22,True)

time.sleep(5)

else:

g.output(22,False)

g.cleanup()

---------------------------------------------------------------------

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Practical No.3

---------------------------------------------------------------------

import Rpi.GPIO as g

import time

g.setmode(g.BOARD)

g.setup(12,g.IN)

g.setup(22,g.OUT)

while True:

var=g.input(12)

print(var)

if var==1:

g.output(22,True)

time.sleep(5)

else:

g.output(22,False)

g.cleanup()

---------------------------------------------------------------------

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Practical No.4

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import Adafruit\_DHT

import RPi.GPIO as g

g.setmode(g.BCM)

while True:

humidity,temperature=Adafruit\_DHT.read\_retry(Adafruit\_DHT.DHT11,2)

print(humidity,temperature)

g.cleanup()

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Practical No.5

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from picamera import PiCamera

from time import sleep

camera=PiCamera()

camera.setrotations(180)

camera.start\_preview()

for i in range(2):

sleep(2)

camera.capture('/home/pi/Desktop/img%s.jpg'&i)

camera.stop\_preview()

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