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# program to give user options of turning on/off individual lights
# or all lights at once

import RPi.GPIO as GPIO
import time

# set up pin variables
LEDA=17
LEDB=18
LEDC=22
LEDD=23

# stop warning coming to the console
GPIO.setwarnings(False)

# setup pins
GPIO.setmode(GPIO.BCM)
GPIO.setup(LEDA, GPIO.OUT)
GPIO.setmode(GPIO.BCM)
GPIO.setup(LEDB, GPIO.OUT)
GPIO.setmode(GPIO.BCM)
GPIO.setup(LEDC, GPIO.OUT)
GPIO.setmode(GPIO.BCM)
GPIO.setup(LEDD, GPIO.OUT)

# get user input
ledaction = input("Choose on or off: ")
whichled = input("Choose a,b,c,d or all: ")

GPIO.setup(LEDA, GPIO.OUT)
if ledaction=="off":
    if whichled == "a":
        GPIO.output(LEDA, False)
    elif whichled == "b":
        GPIO.output(LEDB, False)
    elif whichled == "c":
        GPIO.output(LEDC, False)
    elif whichled == "d":
        GPIO.output(LEDD, False)
    elif whichled == "all":
        GPIO.output(LEDA, False)
        GPIO.output(LEDB, False)
        GPIO.output(LEDC, False)
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        GPIO.output(LEDd, False)
    else:
        print("That was not a valid choice. goodbye. ")

if ledaction=="on":
    if whichled == "a":
        GPIO.output(LEDa, True)
    elif whichled == "b":
        GPIO.output(LEDb, True)
    elif whichled == "c":
        GPIO.output(LEDc, True)
    elif whichled == "d":
        GPIO.output(LEDd, True)
    elif whichled == "all":
        GPIO.output(LEDa, True)
        GPIO.output(LEDb, True)
        GPIO.output(LEDc, True)
        GPIO.output(LEDd, True)
    else:
        print(" That was not a valid choice. goodbye. ")
```