

fifth.py - C:/Users/chaku/AppData/Local/Programs/Python/Python38-32/fifth.py (3.8.1)

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```
import Rpi.GPIO as GPIO
import time
from appJar import gui
GPIO.setmode(GPIO.BCM)
GPIO.setup(20,GPIO.IN)
GPIO.setup(21,GPIO.OUT)

def press(button):
    if button == "cancel":
        app.stop()
    else:
        usr=app.getEntry("username")
        pwd=app.getEntry("password")
        if((usr=="charith" and pwd=="charith") or (usr=="mahesh" and pwd=="mahesh") or (usr=="student" and pwd=="student")):
            print("User:",usr,"password:",pwd)
            app.showSubWindow("success")
        else:
            app.infoBox("login falied","invalid credentials")

app=gui("Login Window", "400x400")
app.setBg("orange")
app.setFont(18)
app.startSubWindow("success", modal=True)
app.addLabel("success", "login successful")
app.stopSubWindow()
app.startSubWindow("Fail", modal=True)
app.addLabel("Fail", "login failed")
app.stopSubWindow()

app.addLabel("title","Welcome to workshop")
app.setLabelBg("title","blue")
app.setLabelFg("title","orange")
app.addLabelEntry("username")
app.addLabelSecretEntry("password")
app.addButtons(["submit","cancel"],press)
app.setFocus("username")

while (True):
    GPIO.output(21,True)
    time.sleep(.00001)
    GPIO.output(21,False)
    w=time.time()
    while (GPIO.input(20)==0):
        start=time.time()
        if (time.time()-w>5):
            break;
    while (GPIO.input(20)==1):
        start=time.time()
```

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```
print("user", user, "password", pwa)
app.showSubWindow("success")
else:
    app.infoBox("login failed", "invalid credentials")

app=gui("Login Window", "400x400")
app.setBg("orange")
app.setFont(18)
app.startSubWindow("success", modal=True)
app.addLabel("success", "login successful")
app.stopSubWindow()
app.startSubWindow("Fail", modal=True)
app.addLabel("Fail", "login failed")
app.stopSubWindow()

app.addLabel("title", "Welcome to workshop")
app.setLabelBg("title", "blue")
app.setLabelFg("title", "orange")
app.addLabelEntry("username")
app.addLabelSecretEntry("password")
app.addButtons(["submit", "cancel"], press)
app.setFocus("username")

while(True):
    GPIO.output(21, True)
    time.sleep(.00001)
    GPIO.output(21, False)
    w=time.time()
    while(GPIO.input(20)==0):
        start=time.time()
        if(time.time()-start>5):
            break;
    while(GPIO.input(20)==1):
        stop=time.time()
    diff=start-stop
    dis=-34300*diff
    print(dis)
    if(dis<10):
        print("object is too close, please login")
        app.go()
    else:
        print("object too far")
```

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