CODE Quản lý phòng trọ

Hướng dẫn chạy code trên Pycharm

**B1:** Tạo thư mục ‘’duan’’ ở ở đĩa D  
**B2:** Tải ảnh dưới đây và lưu tên ‘’anhnen1’’



**B3:**Cài đặt các thư viện sau ở Command Prompt

Pip install tk

Pip install tkcalendar  
Pip install pandas  
Pip install openyxl  
pip install python-time

**Code:**

import tkinter as tk  
from tkinter import ttk  
from PIL import ImageTk  
from tkcalendar import DateEntry  
from tkinter import filedialog  
  
import pandas as pd  
from openpyxl import \*  
from tkinter.messagebox import showinfo  
from tkinter import messagebox  
import time  
  
  
window = tk.Tk()  
window.geometry('600x350')  
window.title('Dang nhap ung dung')  
a = ImageTk.PhotoImage(file='D:/duan/anhnen1.jpg')  
lb = tk.Label(window, image=a)  
lb.place(x=0,y=0)  
  
def login():  
 username = entry1.get()  
 password = entry2.get()  
  
 if (username == '' and password == ''):  
 messagebox.showinfo('That bai!', 'Chua nhap tai khoan va mat khau')  
 elif (username == 'quanlytro' and password == '1'):  
 messagebox.showinfo('Thanh cong!', 'Chao mung ban')  
  
 window = tk.Tk()  
 window.geometry('1020x1000')  
 window.title('Pham mem quan ly thong tin khach hang den thue tro')  
  
  
 def open():  
 path = filedialog.askopenfilename()  
 df = pd.read\_excel(path)  
 print(df)  
  
 def save():  
 Tenkh = txttkh.get()  
 Gt = combogt.get()  
 Ns = calNs.get()  
 Nn = txtnn.get()  
 Dc = txtdc.get()  
 Sdt = txtsdt.get()  
 Qq = comboqq.get()  
 Tdc = txttdc.get()  
 Gp = txtgp.get()  
 Cccd = txtcccd.get()  
 Lhd = combolhd.get()  
 Nnp = calnnp.get()  
 Ntp = calntp.get()  
 Lp = combolp.get()  
 Ps = combops.get()  
 Tt = combott.get()  
  
 Sdtisnum\_true = Sdt.isnumeric()  
 Cccdisnum\_true = Cccd.isnumeric()  
 Tenkhistitle\_true = Tenkh.istitle()  
  
 if Sdtisnum\_true and Tenkhistitle\_true and Cccdisnum\_true:  
 wb = Workbook()  
 ws = wb.active  
 ws['A1'] = 'Ten Khach Hang'  
 ws['B1'] = 'Gioi Tinh'  
 ws['C1'] = 'Nam Sinh'  
 ws['D1'] = 'Que quan'  
 ws['E1'] = 'So CCCD'  
 ws['F1'] = 'Nghe nghiep'  
 ws['G1'] = 'Dia chi'  
 ws['H1'] = 'So dien thoai'  
 ws['I1'] = 'Loai hop dong'  
 ws['J1'] = 'Loai phong'  
 ws['K1'] = 'Phong so'  
 ws['L1'] = 'So tien dat coc'  
 ws['M1'] = 'Gia phong'  
 ws['N1'] = 'Ngay nhan phong'  
 ws['O1'] = 'Ngay tra phong'  
 ws['P1'] = 'Thanh toan'  
 ws['A2'] = Tenkh  
 ws['B2'] = Gt  
 ws['C2'] = Ns  
 ws['D2'] = Qq  
 ws['E2'] = Cccd  
 ws['F2'] = Nn  
 ws['G2'] = Dc  
 ws['H2'] = Sdt  
 ws['I2'] = Lhd  
 ws['J2'] = Lp  
 ws['K2'] = Ps  
 ws['L2'] = Tdc  
 ws['M2'] = Gp  
 ws['N2'] = Nnp  
 ws['O2'] = Ntp  
 ws['P2'] = Tt  
 wb.save(r'D:\duan\duan1.xlsx')  
 showinfo('Thong Bao!', 'Da luu thong tin khach hang')  
 file1 = pd.read\_excel('duan.xlsx')  
 file2 = pd.read\_excel('duan1.xlsx')  
 all = [file1, file2]  
 append = pd.concat(all)  
 append.to\_excel('duan.xlsx', index=False)  
 else:  
 showinfo('Thong Bao!','Ban nhap chua dung, hay thu lai!')  
 def xnclear():  
 xnclear = messagebox.askyesno('Xac nhan!', 'Ban co muon xoa du lieu khong?')  
 if xnclear == True:  
 txttkh.delete(0, tk.END)  
 calNs.delete(0, tk.END)  
 comboqq.delete(0, tk.END)  
 txtnn.delete(0, tk.END)  
 txtdc.delete(0, tk.END)  
 txtsdt.delete(0, tk.END)  
 txtcccd.delete(0, tk.END)  
 combolhd.delete(0, tk.END)  
 combogt.delete(0, tk.END)  
 comboqq.delete(0, tk.END)  
 calnnp.delete(0, tk.END)  
 calntp.delete(0, tk.END)  
 txttdc.delete(0, tk.END)  
 txtgp.delete(0, tk.END)  
 combops.delete(0, tk.END)  
 combott.delete(0, tk.END)  
 combolp.delete(0, tk.END)  
 elif xnclear==False:  
 pass  
  
  
  
  
 def quit():  
 res = messagebox.askyesno('Xac nhan!', 'Ban co muon thoat khong?')  
 if res == True:  
 messagebox.showinfo('Dem', 'Man hinh se tat sau 5 giay')  
 time.sleep(5)  
 window.quit()  
  
 elif res == False:  
 pass  
  
  
 lblqlkh = tk.Label(window, text='Quan Ly Khach Hang', fg='Blue', font=('Arial bold', 10))  
 lblqlkh.grid(column=1, row=1)  
  
 lblhd = tk.Label(window, text='Quan Ly Hop Dong', fg='Blue', font=('Arial bold', 10))  
 lblhd.grid(column=1, row=4)  
  
 lbltkh = tk.Label(window, text='Ten khach hang', bg='gray', fg='white', font=('Arial', 10))  
 lbltkh.grid(column=1, row=2)  
  
 lblns = tk.Label(window, text='Nam sinh', bg='gray', fg='white', font=('Arial', 10))  
 lblns.grid(column=5, row=2)  
  
 lblqq = tk.Label(window, text='Que quan ', bg='gray', fg='white', font=('Arial', 10))  
 lblqq.grid(column=7, row=2)  
  
 lblcccd = tk.Label(window, text='So CCCD', bg='gray', fg='white', font=('Arial', 10))  
 lblcccd.grid(column=1, row=3)  
  
 lblgt = tk.Label(window, text='Gioi tinh', bg='gray', fg='white', font=('Arial', 10))  
 lblgt.grid(column=3, row=2)  
  
 lbldc = tk.Label(window, text='Dia chi', bg='gray', fg='white', font=('Arial', 10))  
 lbldc.grid(column=5, row=3)  
  
 lblnn = tk.Label(window, text='Nghe nghiep', bg='gray', fg='white', font=('Arial', 10))  
 lblnn.grid(column=3, row=3)  
  
 lblsdt = tk.Label(window, text='So dien thoai', bg='gray', fg='white', font=('Arial', 10))  
 lblsdt.grid(column=7, row=3)  
  
 lbllhd = tk.Label(window, text='Loai hop dong', bg='gray', fg='white', font=('Arial', 10))  
 lbllhd.grid(column=1, row=5)  
  
 lbllp = tk.Label(window, text='Loai phong', bg='gray', fg='white', font=('Arial', 10))  
 lbllp.grid(column=3, row=5)  
  
 lblps = tk.Label(window, text='So phong', bg='gray', fg='white', font=('Arial', 10))  
 lblps.grid(column=5, row=5)  
  
 lbltdc = tk.Label(window, text='Tien dat coc', bg='gray', fg='white', font=('Arial', 10))  
 lbltdc.grid(column=1, row=6)  
  
 lblnnp = tk.Label(window, text='Ngay nhan phong', bg='gray', fg='white', font=('Arial', 10))  
 lblnnp.grid(column=3, row=6)  
  
 lblntp = tk.Label(window, text='Ngay tra phong', bg='gray', fg='white', font=('Arial', 10))  
 lblntp.grid(column=5, row=6)  
  
 lblgp = tk.Label(window, text='Gia phong', bg='gray', fg='white', font=('Arial', 10))  
 lblgp.grid(column=7, row=5)  
  
 lbltt = tk.Label(window, text='Thanh toan', bg='gray', fg='white', font=('Arial', 10))  
 lbltt.grid(column=7, row=6)  
  
 lbdct= tk.LabelFrame(window, text='22 Hoang Van Hoe',bg='gray',fg='White',font=('Time new roman bold',20))  
 lbdct.place(height=40, width=250,rely=0.85, relx=0.01)  
  
 lbdct = tk.LabelFrame(window, text='THANHTUAN APARTMENT', bg='#116562', fg='White', font=('Time new roman bold', 30))  
 lbdct.place(height=50, width=530, rely=0.78,relx=0.45)  
  
 txttkh = tk.Entry(window, width=20)  
 txttkh.grid(column=2, row=2)  
  
 txtnn = tk.Entry(window, width=20)  
 txtnn.grid(column=4, row=3)  
  
 txtsdt = tk.Entry(window, width=20)  
 txtsdt.grid(column=8, row=3)  
  
 txtdc = tk.Entry(window, width=20)  
 txtdc.grid(column=6, row=3)  
  
 txttdc = tk.Entry(window, width=20)  
 txttdc.grid(column=2, row=6)  
  
 txtcccd = tk.Entry(window, width=20)  
 txtcccd.grid(column=2, row=3)  
  
 txtgp = tk.Entry(window, width=20)  
 txtgp.grid(column=8, row=5)  
  
 btn = tk.Button(window, text='Luu thong tin' ,bg='Blue', fg='white', font=('Arial bold', 10), command=save)  
 btn.grid(column=7, row=7)  
  
 btn1 = tk.Button(window, text='Xoa', bg='red', fg='white', font=('Arial bold',10), command=xnclear)  
 btn1.grid(column=8, row=7)  
  
 btn2 = tk.Button(window, text='Thoat', font=('Arial bold',10),bg='red',fg='white', command=quit)  
 btn2.place(rely=0.88,relx=0.9)  
  
 combolhd = ttk.Combobox(window, width=20)  
 combolhd['values'] = ('Thue ngay', 'Thue thang', 'Thue nam')  
 combolhd.grid(column=2, row=5)  
  
 combogt = ttk.Combobox(window, width=20)  
 combogt['values'] = ('Nam', 'Nu', 'Khac')  
 combogt.grid(column=4, row=2)  
  
 comboqq = ttk.Combobox(window, width=20)  
 comboqq['values'] = ('An Giang', 'Bà Rịa-Vũng Tàu', 'Bạc Liêu', 'Bắc Kạn', 'Bắc Giang', 'Bắc Ninh', 'Bến Tre',  
 'Bình Dương', 'Bình Định', 'Bình Phước', 'Bình Thuận', 'Cà Mau', 'Cao Bằng',  
 'Cần Thơ (TP)',  
 'Đà Nẵng', '(TP)Đắk Lắk', 'Đắk Nông', 'Điện Biên', 'Đồng Nai', 'Đồng Tháp', 'Gia Lai',  
 'Hà Giang', 'Hà Nam', 'Hà Nội (TP)', 'Hà Tây',  
 'Hà Tĩnh', 'Hải Dương', 'Hải Phòng', '(TP)Hòa Bình', 'Hồ Chí Minh (TP)', 'Hậu Giang',  
 'Hưng Yên', 'Khánh Hòa', 'Kiên Giang', 'Kon Tum', 'Lai Châu', 'Lào Cai', 'Lạng Sơn',  
 'Lâm Đồng',  
 'Long An', 'Nam Định', 'Nghệ An', 'Ninh Bình', 'Ninh Thuận', 'Phú Thọ', 'Phú Yên',  
 'Quảng Bình', 'Quảng Nam', 'Quảng Ngãi', 'Quảng Ninh', 'Quảng Trị',  
 'Sóc Trăng', 'Sơn La', 'Tây Ninh', 'Thái Bình', 'Thái Nguyên', 'Thanh Hóa',  
 'Thừa Thiên – Huế', 'Tiền Giang', 'Trà Vinh', 'Tuyên Quang', 'Vĩnh Long', 'Vĩnh Phúc',  
 'Yên Bái')  
 comboqq.grid(column=8, row=2)  
  
 combolp = ttk.Combobox(window, width=20)  
 combolp['values'] = ('Phong don', 'Phong doi', 'Phong da', 'Phong giuong tang')  
 combolp.grid(column=4, row=5)  
  
 combops = ttk.Combobox(window, width=20)  
 combops['values'] = ('1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13',  
 '14', '15', '16', '17', '18', '19', '20')  
 combops.grid(column=6, row=5)  
  
 combott = ttk.Combobox(window, width=20)  
 combott['values'] = ('Da thanh toan', 'Chua thanh toan')  
 combott.grid(column=8, row=6)  
  
 calNs = DateEntry(window, width=20)  
 calNs.grid(column=6, row=2)  
  
 calnnp = DateEntry(window, width=20)  
 calnnp.grid(column=4, row=6)  
  
 calntp = DateEntry(window, width=20)  
 calntp.grid(column=6, row=6)  
  
  
  
 frame1 = tk.LabelFrame(window, text='Du Lieu Excel', fg='Blue', font=('Arial bold', 10))  
 frame1.place(height=400, width=1000, rely=0.2, relx=0.01)  
  
 file\_frame = tk.LabelFrame(window, text="Mo File", fg='Blue', font=('Arial bold', 10))  
 file\_frame.place(height=100, width=400, rely=0.7, relx=0.01)  
  
 button1 = tk.Button(file\_frame, text="Chon mot file", bg='gray', fg='white', font=('Arial', 10), command=lambda: File\_dialog())  
 button1.place(rely=0.65, relx=0.75)  
  
 button2 = tk.Button(file\_frame, text="Tai du lieu", bg='gray', fg='white', font=('Arial', 10), command=lambda: Load\_excel\_data())  
 button2.place(rely=0.65, relx=0.55)  
  
 label\_file = ttk.Label(file\_frame, text="Chua co file nao duoc chon",font=('Arial',10))  
 label\_file.place(rely=0, relx=0)  
  
 tv1 = ttk.Treeview(frame1)  
 tv1.place(relheight=1, relwidth=1)  
  
 treescrolly = tk.Scrollbar(frame1, orient="vertical",  
 command=tv1.yview)  
 treescrollx = tk.Scrollbar(frame1, orient="horizontal",  
 command=tv1.xview)  
 tv1.configure(xscrollcommand=treescrollx.set,  
 yscrollcommand=treescrolly.set)  
 treescrollx.pack(side="bottom", fill="x")  
 treescrolly.pack(side="right", fill="y")  
  
 def File\_dialog():  
 filename = filedialog.askopenfilename(initialdir="/",  
 title="Select A File",  
 filetype=(("xlsx files", "\*.xlsx"), ("All Files", "\*.\*")))  
 label\_file["text"] = filename  
 return None  
  
 def Load\_excel\_data():  
 file\_path = label\_file["text"]  
 try:  
 excel\_filename = r"{}".format(file\_path)  
 if excel\_filename[-4:] == ".csv":  
 df = pd.read\_csv(excel\_filename)  
 else:  
 df = pd.read\_excel(excel\_filename)  
  
 except ValueError:  
 tk.messagebox.showerror("Thong bao!", "File ban chon khong hop le")  
 return None  
 except FileNotFoundError:  
 tk.messagebox.showerror("Thong bao!", f"Khong co file nhu vay {file\_path}")  
 return None  
  
 clear\_data()  
 tv1["column"] = list(df.columns)  
 tv1["show"] = "headings"  
 for column in tv1["columns"]:  
 tv1.heading(column, text=column)  
  
 df\_rows = df.to\_numpy().tolist()  
 for row in df\_rows:  
 tv1.insert("", "end",  
 values=row)  
 return None  
  
 def clear\_data():  
 tv1.delete(\*tv1.get\_children())  
 return None  
  
  
  
  
 window.mainloop()  
  
  
 else:  
 messagebox.showinfo('That bai!', ' Vui long dang nhap lai')  
  
  
global entry1  
global entry2  
  
lb = tk.Label(window, text='Tai khoan',bg='orange', fg='white', font=('Arial bold', 10),bd=5)  
lb.place(x=30, y=20)  
  
lb1 = tk.Label(window, text='Mat khau',bg='orange', fg='white', font=('Arial bold', 10),bd=5)  
lb1.place(x=30, y=70)  
  
entry1 = tk.Entry(window, bd=5)  
entry1.place(x=140, y=20)  
entry2 = tk.Entry(window, bd=5)  
entry2.place(x=140, y=70)  
  
bt = tk.Button(window, text='Dang nhap', bg='brown',fg='white',font=('Arial bold',10), command=login, height=2, width=10, bd=6)  
bt.place(x=100, y=120)  
  
  
window.mainloop()