Assignment No 11 :(Files)

Aim: Write a Python GUI program for the student registration and store the details in the file; Allow the users to read the details from the file.

Theory: File handling is an important part of any web application. Python has several functions for creating, reading, updating, and deleting files.

File Handling

The key function for working with files in Python is the `open()` function.

The `open()` function takes two parameters; *filename*, and *mode*.

There are four different methods (modes) for opening a file:

"r" - Read - Default value. Opens a file for reading, error if the file does not exist

'a"- Append - Opens a file for appending, creates the file if it does not exist

"w" - Write - Opens a file for writing, creates the file if it does not exist

"x" - Create - Creates the specified file, returns an error if the file exists

In addition you can specify if the file should be handled as binary or text mode

"t" - Text - Default value. Text mode

"b" - Binary - Binary mode (e.g. images)

Syntax

To open a file for reading it is enough to specify the name of the file:

f= open("demofile.txt") OR

f= open("demofile.txt", "rt)

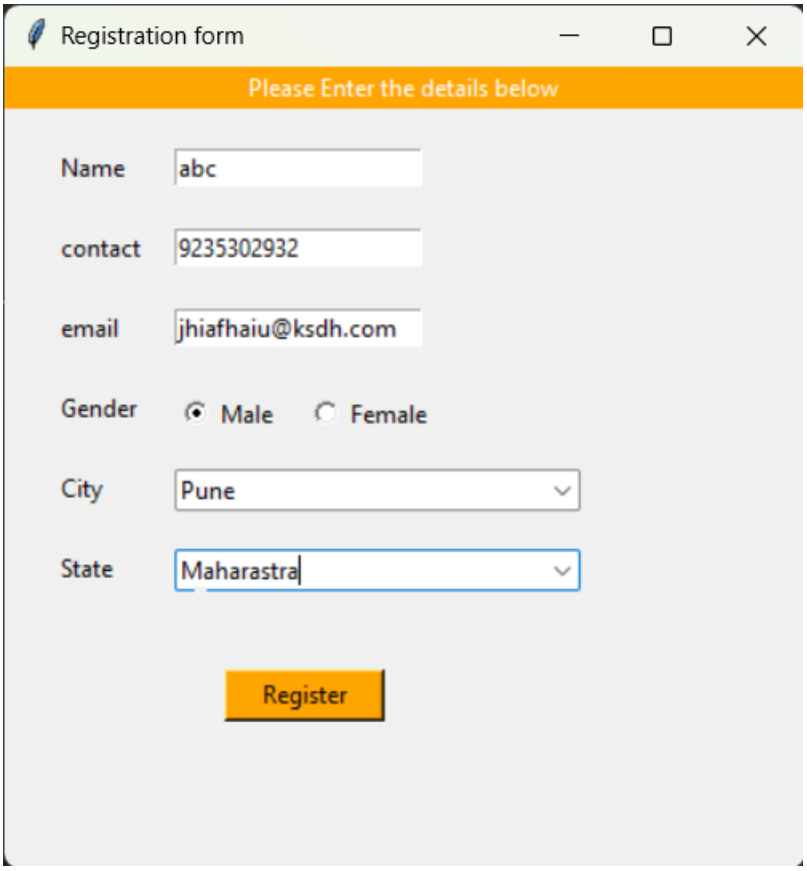
Because “r” for read, and “t” for text are the default values, you do not need to specify them.

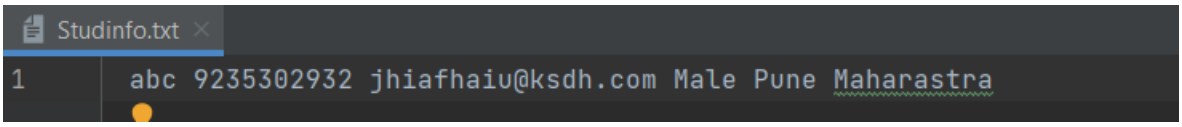
CODE:

```
from tkinter import *
from tkinter import ttk


def registration():
    name1 = name.get()
    contact1 = contact.get()
    email1 = email.get()
    gender1 = gender.get()
    city1 = city.get()
    state1 = state.get()

    if name1 == '' or contact1 == '' or email1 == '' or gender1 == '' or city1 == ''
or state1 == '':
        message.set("Fill all the Details ")

    else:
        with open("Studinfo.txt", "a") as fp:
            if gender == 1:
                fp.write(" " + name1 + " " + contact1 + " " + email1 + " Male " +
city1 + " " + state1)
            else:
                fp.write(" " + name1 + " " + contact1 + " " + email1 + " Female " +
city1 + " " + state1)
            message.set("Data Stored Successfully")


def registration_form():
    global registration_screen

    registration_screen = Tk()

    registration_screen.title("Registration form ")

    registration_screen.geometry("400x400")

    global message
    global name
    global contact
    global email
    global gender
    global city
    global state

    name = StringVar()
    contact = StringVar()
    email = StringVar()
    gender = IntVar()
    city = StringVar()
    state = StringVar()
    message = StringVar()

    Label(registration_screen, width="250", text="Please Enter the details below",
bg='orange', fg='white').pack()

    Label(registration_screen, text="Name ").place(x=25, y=40)

    Entry(registration_screen, textvariable=name).place(x=85, y=41)
```

```
    Label(registration_screen, text="contact ").place(x=25, y=80)

    Entry(registration_screen, textvariable=contact).place(x=85, y=81)

    Label(registration_screen, text="email ").place(x=25, y=120)

    Entry(registration_screen, textvariable=email).place(x=85, y=121)

    Label(registration_screen, text="Gender ").place(x=25, y=160)

    Radiobutton(registration_screen, text='Male', variable=gender,
value=1).place(x=85, y=161)
    Radiobutton(registration_screen, text='Female', variable=gender,
value=2).place(x=150, y=161)

    Label(registration_screen, text="City ").place(x=25, y=200)
    citychoosen = ttk.Combobox(registration_screen, width=30, textvariable=city)
    citychoosen['values'] = ('Mumbai', 'Pune', "Chennai", "Kolkata", "Bengluru",
"Patna", "Nagpur")
    citychoosen.current()
    citychoosen.place(x=85, y=201)

    Label(registration_screen, text="State ").place(x=25, y=240)
    statechoosen = ttk.Combobox(registration_screen, width=30, textvariable=state)
    statechoosen['values'] = (
    'Maharastra', 'Karnataka', "Andra Pradesh", "West Bangal", "Bihar", "Meghalaya",
"Uttar Pradesh")
    statechoosen.current()
    statechoosen.place(x=85, y=241)

    Label(registration_screen, text=" ", textvariable=message).place(x=95, y=260)

    Button(registration_screen, text="Register", width=10, height=1, bg="orange",
command=registration).place(x=110,

y=301)

    registration_screen.mainloop()


registration_form()
```

OUTPUT:





Conclusion: Hence, we have learned the file handling in python.