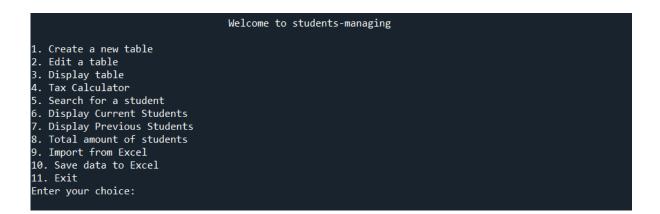
# **Managing students**

In the project I created a managing students system in Python.

The system helps tutors and teachers who want to save data about their students, lessons, pay and tax.

This project leverages Object-Oriented Programming (OOP) principles along with the powerful data manipulation capabilities of pandas, a Python Data Analysis Library, to efficiently manage and process data, including data stored in Excel files.



In the main screen we can see we have a few options-

- 1. Creating a new table
- 2. Editing a table
- 3. Displaying a table
- 4. Tac calculator
- 5. Searching a student
- 6. Display Current Students
- 7. Display Previous Students
- 8. Total amount of students
- 9. Import from Excel
- 10. Save data to Excel

<u>Creating a new table</u>

```
Creating a new table
```

Enter the name for the new table: 2024

In this section, we'll be prompted to assign a name to the table, with the option to modify it later.

### Editing a table

```
Enter the name of the table you want to switch to: 2024

Current Table:
Empty DataFrame
Columns: [First name, Last name, Phone number, School, Hours, Current Student?]
Index: []

Options for Table '2024':
1. Switch to another table
2. Display current table
3. Add a new student
4. Delete a student
5. Update a student
6. Back to main menu
Enter your choice: |
```

In this section we'll be asked to choose a table and then will be given the option to-

- 1.Switch to another table
- 2. Display current table
- 3. Add a new student
- 4. Delete a student
- 5. Update a student

This tool serves as a valuable resource for teachers seeking a user-friendly interface to view, add, and edit data effortlessly.

### Tax calculator

# Tax calculator Enter the name of the table to calculate total hours: 2024 Enter the price per hour: 20 1. Calculate total pay 2. Calculate the amount of tax to pay 3. Display tax brackets 4. Back to main menu Enter your choice: 2 Income tax for an income of \$300.0 is \$30.0

We'll be given the option to-

- 1. Calculate total pay
- 2. Calculate the amount of tax to pay
- 3. Seeing tax brackets

In this tool serves as a resource for teachers who want to know how much they earned and how much tax they need to pay.

### Searching a studen

```
Searching students

Enter the name of the student to search: Jane

Student 'Jane' found in Table '2024':

First name Last name Phone number School Hours Current Student?

O Jane Doe 123456 MIT 15 yes
```

Teachers can easily search for a specific student to access and review their relevant data.

### **Display Current Students**

```
Current students
Table '2024':
First name Last name Phone number School Hours Current Student?
0 Jane Doe 123456 MIT 15 yes
```

In this section, the teacher can see all their current students.

## **Display Previous Students**

```
Previous students

Table '2024':
First name Last name Phone number School Hours Current Student?

Mike Davis 52548 harvard 22 no
```

In this section, the teacher can see all their previous students.

# **Import from Excel**

If the teacher has data stored in an Excel file, they can seamlessly import it into the system, which will automatically generate a corresponding table.

### Save data to Excel

This feature enables teachers to export data from the system to an Excel file effortlessly.