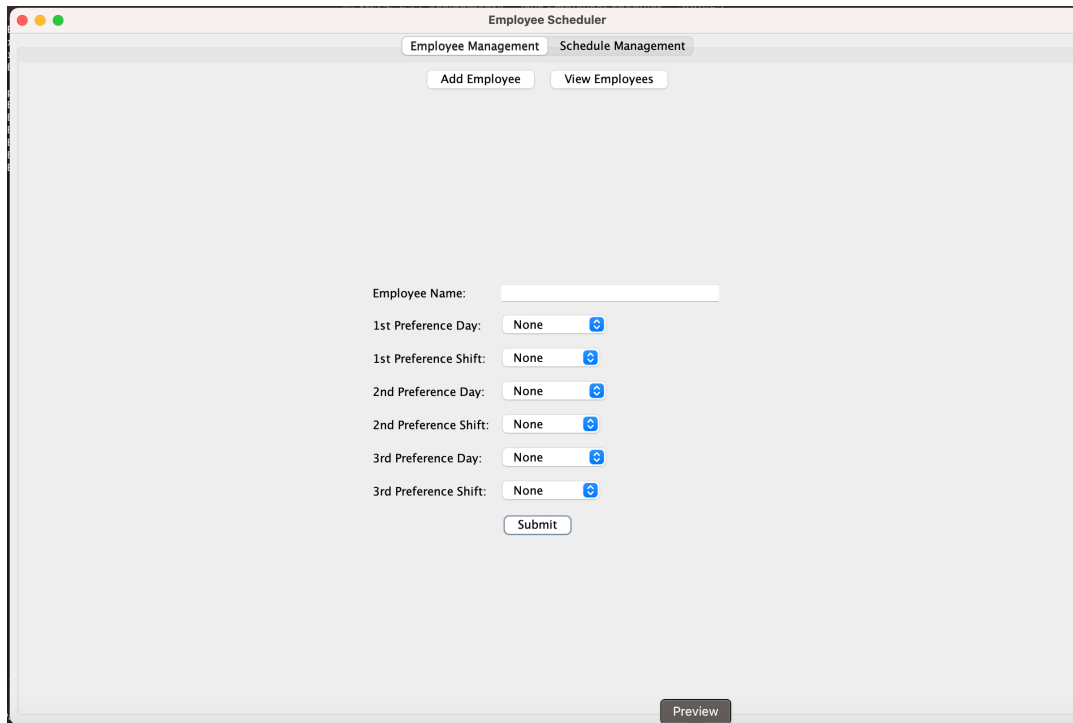


Java Implementation Evidence



The screenshot shows a Java Swing window titled "Employee Scheduler". It has two tabs: "Employee Management" (selected) and "Schedule Management". Below the tabs are two buttons: "Add Employee" and "View Employees". The main area contains a form for adding a new employee. It starts with a text field for "Employee Name:". Below this are six dropdown menus for preferences, arranged in three pairs. Each pair consists of a label (e.g., "1st Preference Day:", "1st Preference Shift:") and a dropdown menu currently set to "None". At the bottom of the form is a "Submit" button. A "Preview" button is located at the bottom right of the window.

Employee Scheduler

Employee Management | Schedule Management

Add Employee View Employees

Employee Name:

1st Preference Day: None

1st Preference Shift: None

2nd Preference Day: None

2nd Preference Shift: None

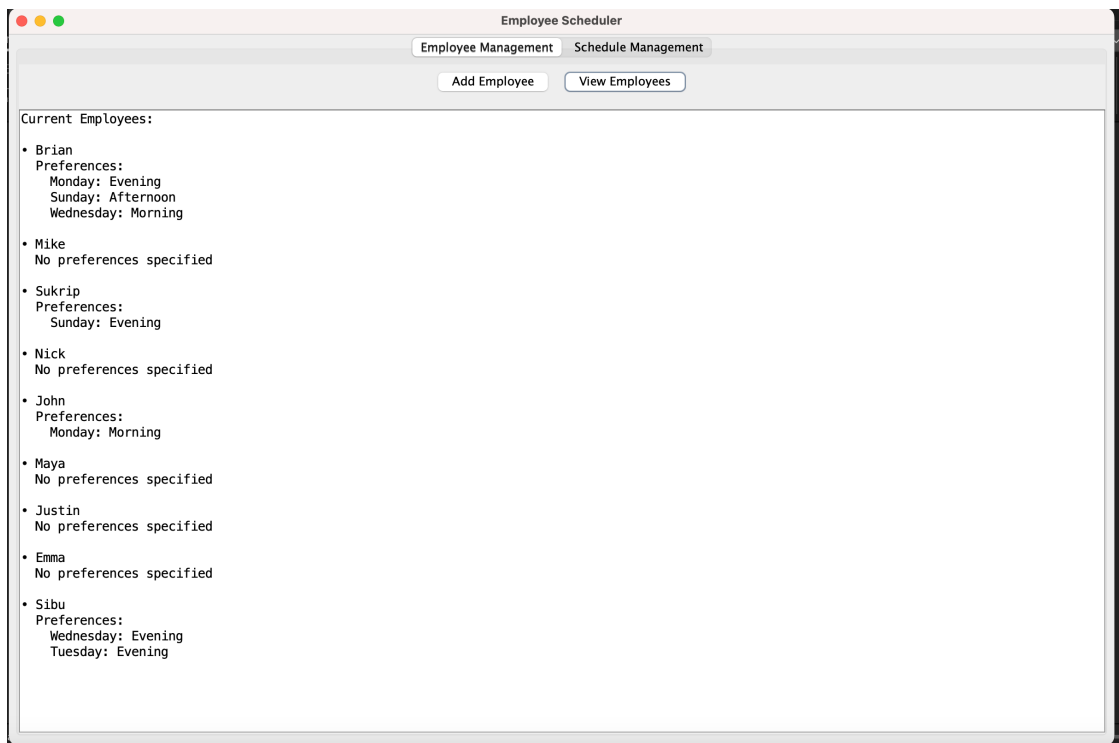
3rd Preference Day: None

3rd Preference Shift: None

Submit

Preview

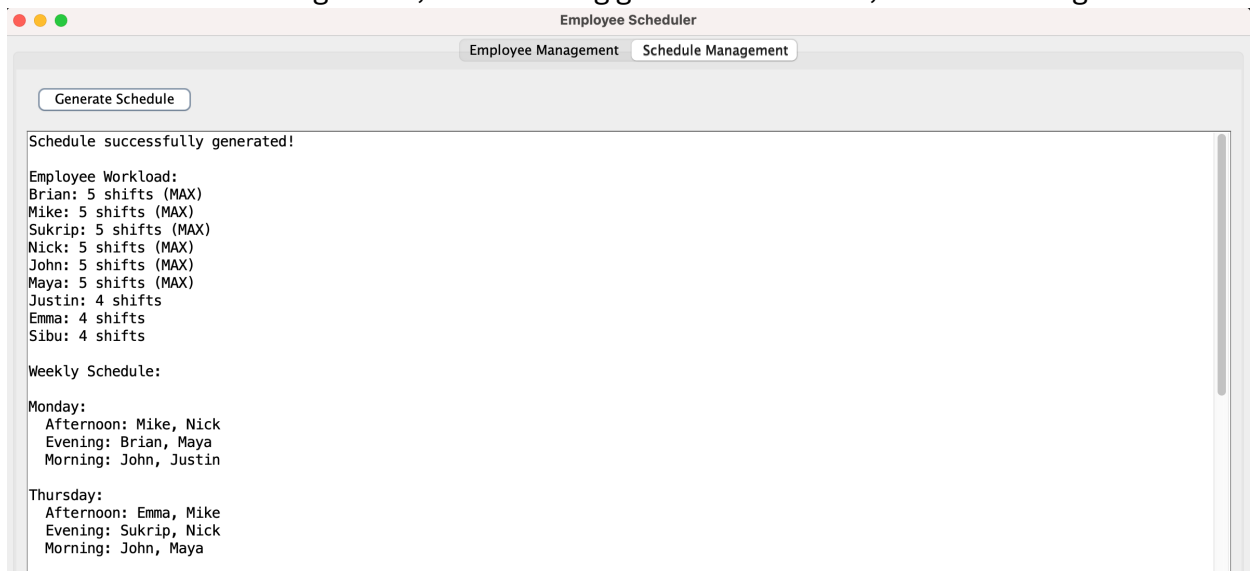
From this screen, employees are added, and can be viewed using View Employees.



The screenshot shows the same "Employee Scheduler" window, but now the "Schedule Management" tab is selected. The "Add Employee" and "View Employees" buttons are still present. The main area displays a list of "Current Employees:" with the following details:

- Brian
Preferences:
Monday: Evening
Sunday: Afternoon
Wednesday: Morning
- Mike
No preferences specified
- Sukrip
Preferences:
Sunday: Evening
- Nick
No preferences specified
- John
Preferences:
Monday: Morning
- Maya
No preferences specified
- Justin
No preferences specified
- Emma
No preferences specified
- Sibub
Preferences:
Wednesday: Evening
Tuesday: Evening

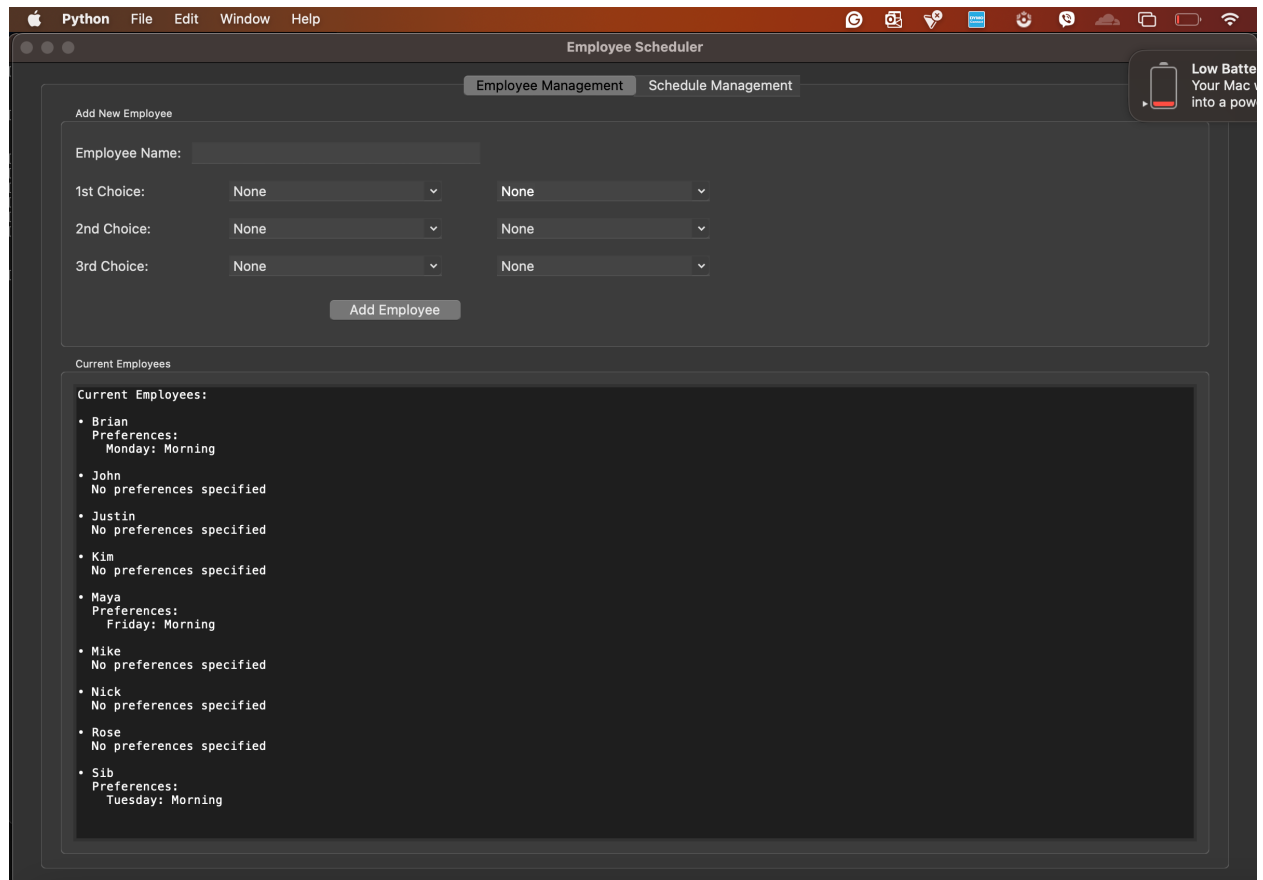
Under Schedule Management, after clicking generate schedule, a schedule is generated.

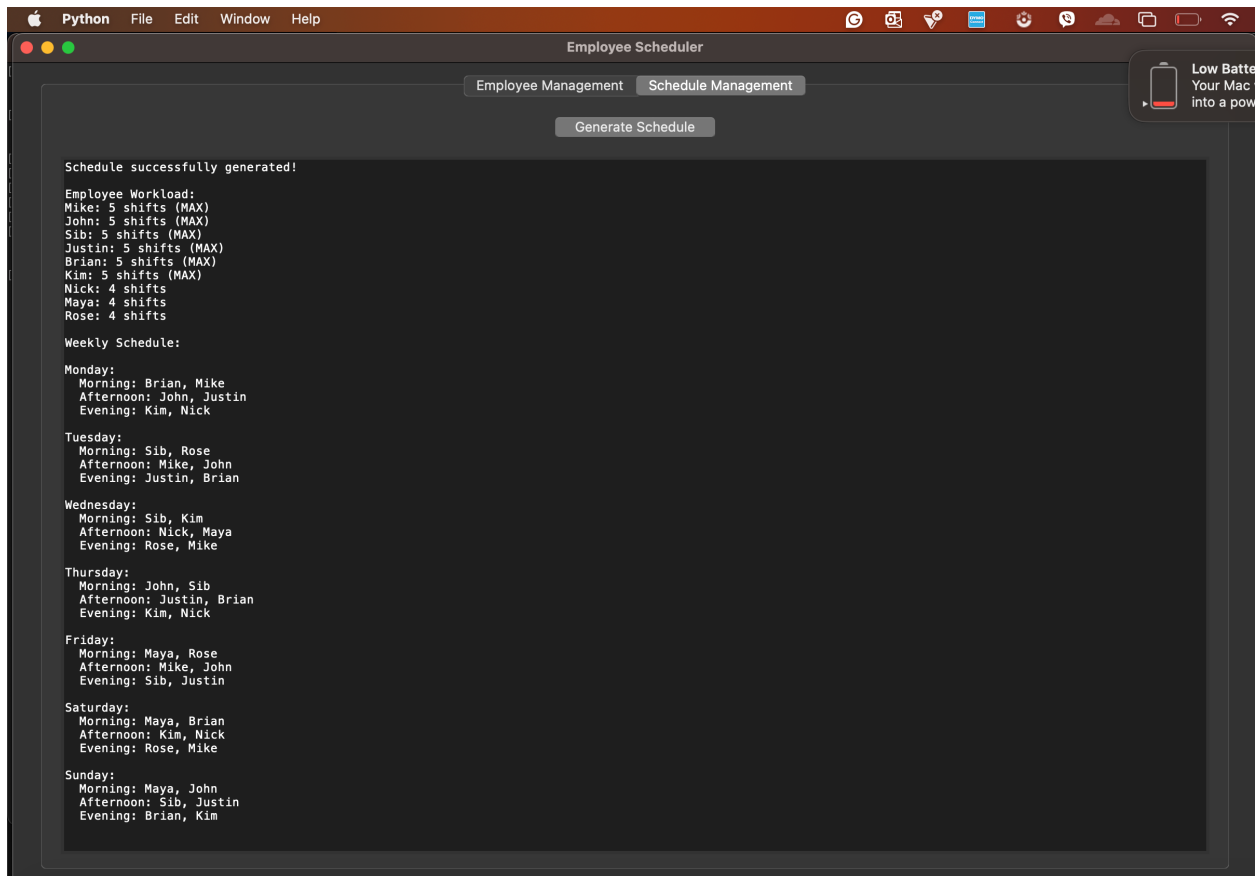


Verification:

- No employee gets to work more than 5 days a week.
- 2 people are working in each shift.
- No person is allowed to work more than one shift a day.
- Preference is taken into consideration. For example, Brian wants to work Monday Evening, Sunday Afternoon, and Wednesday Morning. Those are taken into consideration.

Python Implementation Evidence





Schedule is verified with same criteria as Java.

Verification:

- No employee gets to work more than 5 days a week.
- 2 people are working in each shift.
- No person is allowed to work more than one shift a day.
- Preference is taken into consideration. For example, Sib wants to work on Tuesday Morning, and she gets to work on that day.

The source code can be found at: <https://github.com/uniquekaranjit/MSCS-632-Assignment4>