

Project: Employees System



Project: Employees System

- Help our factory in managing the employees.
- Create a program that provides the following operations:
 - Enter your choice:
 - 1) Add new employee
 - 2) Print all employees
 - 3) Delete by age
 - 4) Update Salary by name
 - 5) End the program
- You will keep the program running forever.
 - Display the choices and user input from 1 to 5

Enter employee data

- Print this menu of 5 choices
- Validate the input
 - It should be int from 1 to 5
 - Keep asking tell user enter valid choice
- Employee information
 - Name (including spaces)
 - Age and Salary: integers

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

Enter your choice (from 1 to 5): 0

Invalid range. Try again!

Enter your choice (from 1 to 5): 55

Invalid range. Try again!

Enter your choice (from 1 to 5): heelo

Invalid input. Try again!

Enter your choice (from 1 to 5): 1

Enter employee data:

Enter the name: mostafa saad

Enter the age: 20

Enter the salary: 555

Let's enter more data

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

Enter your choice (from 1 to 5): 1

Enter employee data:

Enter the name: Ziad

Enter the age: 32

Enter the salary: 320

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

Enter your choice (from 1 to 5): 1

Enter employee data:

Enter the name: Asmaa

Enter the age: 25

Enter the salary: 1000

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

Enter your choice (from 1 to 5): 1

Enter employee data:

Enter the name: Belal Mostafa

Enter the age: 30

Enter the salary: 3000

Print the employees

- Option 2: Print the employees
- If No employees print: No employees at the moment!

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

Enter your choice (from 1 to 5): 2

****Employees list****

Employee: mostafa saad has age 20 and salary 555

Employee: Asmaa has age 25 and salary 1000

Employee: Belal Mostafa has age 30 and salary 3000

Employee: Ziad has age 32 and salary 320

Delete by age

- Option 3
- The user enter start and end
- All employees within this age will be deleted

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

Enter your choice (from 1 to 5): 3

Enter age from: 25

Enter age to: 31

—>Deleting Belal Mostafa

—>Deleting Asmaa

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

Enter your choice (from 1 to 5): 2

****Employees list****

Employee: mostafa saad has age 20 and salary 555

Employee: Ziad has age 32 and salary 320

Update a salary

- Option 4: Given a name and salary, find and update the salary of a given person
- Option 5: exit

```
Enter your choice (from 1 to 5): 4
Enter name: mostafa
Enter new salary: 1
Error: No employee with such a name
```

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

```
Enter your choice (from 1 to 5): 4
Enter name: mostafa saad
Enter new salary: 222
```

Program Options:

- 1) Add a new employee
- 2) List all employees
- 3) Delete by age range
- 4) Update salary given a name
- 5) End the program

```
Enter your choice (from 1 to 5): 2
```

****Employees list****

```
Employee: mostafa saad has age 20 and salary 222
Employee: Ziad has age 32 and salary 320
```

Design

- Give a trial as you like
- If you want to take a step toward **OOP**
- Think in terms **objects**
- There are 3 classes that one can design
- **Employee Class**
 - Just holds the data and basic function for it
- **EmployeesManager Class**
 - Holds a list of employees and has implementation for the menu options
- **FrontendManager Class**
 - Print the menu, get a choice and call the employees manager