

Employee Database Cont'

Starting with empty lists

```
id_list = []  
name_list = []  
sal_list = []  
dep_list = []
```

And this csv file

	A	B	C	D
1	name	salary	department	
2	ahmed ali	2000	finance	
3	Ali ahmed	3000	HR	
4	amr ahmed	4000	ENG	
5	ali mahmoud	5000	HR	
6	hossam ah	9000	ENG	
7	muhammad	7000	ENG	
8	mahmoud	4000	finance	
9				

Add to the program from lab 2

```
0-import csv or pickle  
1-new  
2-search  
3-delete  
4-show all  
5-export  
6-export department  
7-export pickle  
8-quit  
  
Choose process: |
```

Import CSV or Pickle

```
Choose process: 0
1-CSV
2-Pickle
Choose Method:
```

1-CSV:

```
Choose process: 0
1-CSV
2-Pickle
Choose Method: 1

Added new Employee:
ID: 1 , Name: ahmed ali , Salary: 2000.0, Department finance

Added new Employee:
ID: 2 , Name: ali ahmed , Salary: 3000.0, Department HR

Added new Employee:
ID: 3 , Name: amr ahmed , Salary: 4000.0, Department ENG

Added new Employee:
ID: 4 , Name: ali mahmoud , Salary: 5000.0, Department HR

Added new Employee:
ID: 5 , Name: hossam ahmed , Salary: 9000.0, Department ENG

Added new Employee:
ID: 6 , Name: muhammed mamdouh , Salary: 7000.0, Department ENG

Added new Employee:
ID: 7 , Name: mahmoud ahmed , Salary: 4000.0, Department finance
...
```

2-pickle

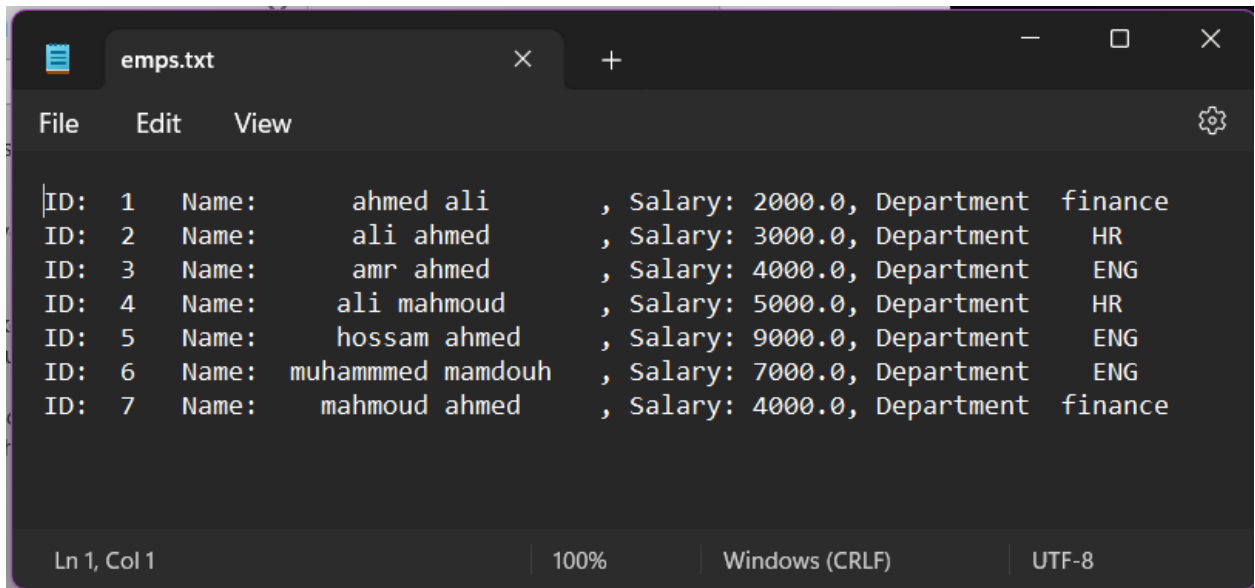
```
Choose process: 0
1-CSV
2-Pickle
Choose Method: 2
PICKLE FILE DOESN'T EXIST
...
```

If pickle file (emp.pkl) doesn't exist

5- export

```
Choose process: 5
...
```

Create a file named emp.txt



```
File Edit View
ID: 1 Name: ahmed ali , Salary: 2000.0, Department finance
ID: 2 Name: ali ahmed , Salary: 3000.0, Department HR
ID: 3 Name: amr ahmed , Salary: 4000.0, Department ENG
ID: 4 Name: ali mahmoud , Salary: 5000.0, Department HR
ID: 5 Name: hossam ahmed , Salary: 9000.0, Department ENG
ID: 6 Name: muhammed mamdouh , Salary: 7000.0, Department ENG
ID: 7 Name: mahmoud ahmed , Salary: 4000.0, Department finance

Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8
```

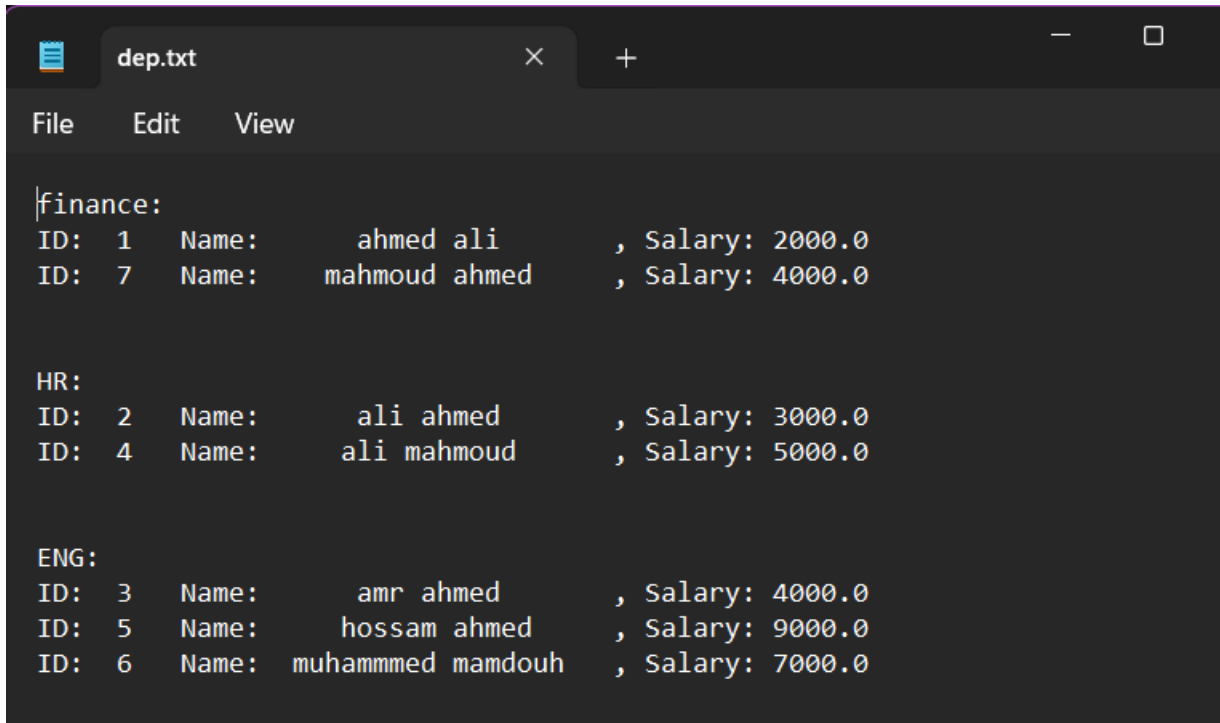
In the file write all the employees **(just like the show all)**

6- export department

```
Choose process: 6
...
```

Group by department (create a dictionary with keys as department name and value as list of employees' information who belong to this department)

Then write the following file dep.txt



```
File Edit View

|finance:
ID: 1  Name:  ahmed ali      , Salary: 2000.0
ID: 7  Name:  mahmoud ahmed , Salary: 4000.0

HR:
ID: 2  Name:  ali ahmed     , Salary: 3000.0
ID: 4  Name:  ali mahmoud   , Salary: 5000.0

ENG:
ID: 3  Name:  amr ahmed     , Salary: 4000.0
ID: 5  Name:  hossam ahmed  , Salary: 9000.0
ID: 6  Name:  muhammed mamdouh , Salary: 7000.0
```

7- export pickle

```
Choose process: 7
...
```

This option exports all lists as a pickle file called emp.pkl

Once the pickle file is created, now try to delete all employees

Then use the import pickle option

Then choose show all

Required:

-Use list comprehension

-Make your code into meaningful functions