Rule: Test cases is following by order, if failing any test case then the scoring process will be terminated, score is evaluated by percentage of number of test cases finishing.

Warning: You must output the same test case to pass. DON'T ACCEPT HARD CODE

/menu

- 1 -- Load data from file
- 2 -- Add new employee
- 3 -- Display list of employee
- 4 -- Show employee details
- 5 -- Update employee information
- 6 -- Delete employee
- 7 -- Increase salary of employee
- 8 -- Decrease salary of employee
- 9 -- Show total employee a month
- 10 -- Show total salary a month
- 11 -- Show average of salary a month
- 12 -- Show average of age
- 13 -- Show maximum age
- 14 -- Sort list of employee according to salary by ascending
- 15 -- Draw salary according to age
- 16 -- Draw average salary chart by age group
- 17 -- Draw percentage of salary by age group
- 18 -- Draw percentage of total employee by age group
- 19 -- Store data to file

Others -- Exit program

Input choice:

Case-01

/menu

1

/menu

```
code: e001, name: an, age: 21, salary: 750.00, income: 8100.00
code: e002, name: binh, age: 20, salary: 500.00, income: 5400.00
code: e003, name: cuong, age: 25, salary: 800.00, income: 8640.00
code: e004, name: duy, age: 22, salary: 550.00, income: 5940.00
code: e005, name: phu, age: 27, salary: 500.00, income: 5400.00
code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00
code: e007, name: nhung, age: 27, salary: 1000.00, income: 10800.00
Case-02
/menu
2
Input choice: 2
Input code: e008
Input name: long
Input age: 32
Input salary: 800
/menu
3
code: e001, name: an, age: 21, salary: 750.00, income: 8100.00
code: e002, name: binh, age: 20, salary: 500.00, income: 5400.00
code: e003, name: cuong, age: 25, salary: 800.00, income: 8640.00
code: e004, name: duy, age: 22, salary: 550.00, income: 5940.00
code: e005, name: phu, age: 27, salary: 500.00, income: 5400.00
code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00
code: e007, name: nhung, age: 27, salary: 1000.00, income: 10800.00
code: e008, name: long, age: 32, salary: 800.00, income: 8640.00
```

```
/menu
4
Input code: e006
 code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00
/menu
4
Input code: e010
Nothing here
Case-04
/menu
5
Input code: e020
Nothing here
/menu
5
Input code: e006
Input name: loan
Input age: 40
Input salary: 550
/menu
4
Input code: e006
code: e006, name: loan, age: 40, salary: 550.00, income: 5940.00
/menu
5
Input code: e006
```

```
Input name: phung
Input age: 37
Input salary: 1000
/menu
3
code: e001, name: an, age: 21, salary: 750.00, income: 8100.00
code: e002, name: binh, age: 20, salary: 500.00, income: 5400.00
code: e003, name: cuong, age: 25, salary: 800.00, income: 8640.00
code: e004, name: duy, age: 22, salary: 550.00, income: 5940.00
code: e005, name: phu, age: 27, salary: 500.00, income: 5400.00
code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00
code: e007, name: nhung, age: 27, salary: 1000.00, income: 10800.00
code: e008, name: long, age: 32, salary: 800.00, income: 8640.00
Case-05
/menu
6
Input code: e010
Nothing here
/menu
6
Input code: e008
/menu
```

code: e001, name: an, age: 21, salary: 750.00, income: 8100.00

code: e002, name: binh, age: 20, salary: 500.00, income: 5400.00

code: e003, name: cuong, age: 25, salary: 800.00, income: 8640.00

code: e004, name: duy, age: 22, salary: 550.00, income: 5940.00

code: e005, name: phu, age: 27, salary: 500.00, income: 5400.00

code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00

code: e007, name: nhung, age: 27, salary: 1000.00, income: 10800.00

Case-06

/menu

7

Input code: e008

Nothing here

/menu

7

Input code: e007

Input amount: 1000

/menu

code: e001, name: an, age: 21, salary: 750.00, income: 8100.00

code: e002, name: binh, age: 20, salary: 500.00, income: 5400.00

code: e003, name: cuong, age: 25, salary: 800.00, income: 8640.00

code: e004, name: duy, age: 22, salary: 550.00, income: 5940.00

code: e005, name: phu, age: 27, salary: 500.00, income: 5400.00

code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00

code: e007, name: nhung, age: 27, salary: 2000.00, income: 21600.00

Case-07

/menu

8

Input code: e008

Nothing here

/menu

8

Input code: e007

Input amount: 1000

/menu

```
code: e001, name: an, age: 21, salary: 750.00, income: 8100.00
```

code: e002, name: binh, age: 20, salary: 500.00, income: 5400.00

code: e003, name: cuong, age: 25, salary: 800.00, income: 8640.00

code: e004, name: duy, age: 22, salary: 550.00, income: 5940.00

code: e005, name: phu, age: 27, salary: 500.00, income: 5400.00

code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00

code: e007, name: nhung, age: 27, salary: 1000.00, income: 10800.00

Case-08

/menu

9

Number of employees: 7

/menu

10

Total salary a month: 5100.00

/menu

11

Average of salary: 728.57

/menu

12

Average of age: 25.57

Case-09

/menu

13

Maximum age: 20

/menu

/menu

3

code: e002, name: binh, age: 20, salary: 500.00, income: 5400.00

code: e005, name: phu, age: 27, salary: 500.00, income: 5400.00

code: e004, name: duy, age: 22, salary: 550.00, income: 5940.00

code: e001, name: an, age: 21, salary: 750.00, income: 8100.00

code: e003, name: cuong, age: 25, salary: 800.00, income: 8640.00

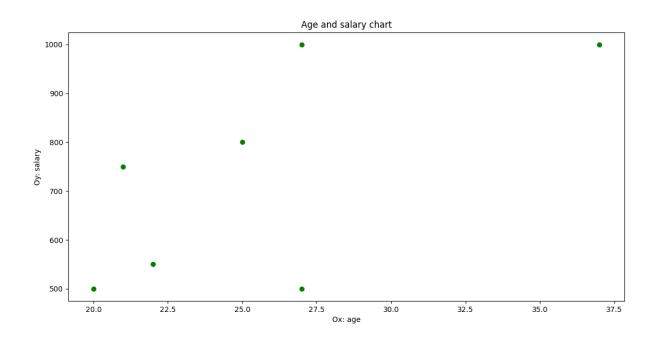
code: e006, name: phung, age: 37, salary: 1000.00, income: 10800.00

code: e007, name: nhung, age: 27, salary: 1000.00, income: 10800.00

Case-10

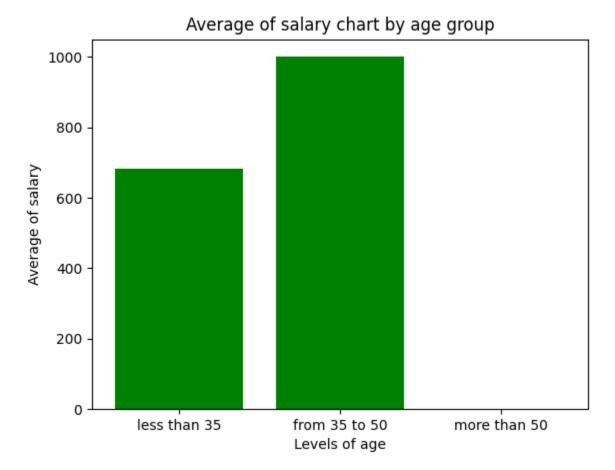
/menu

15

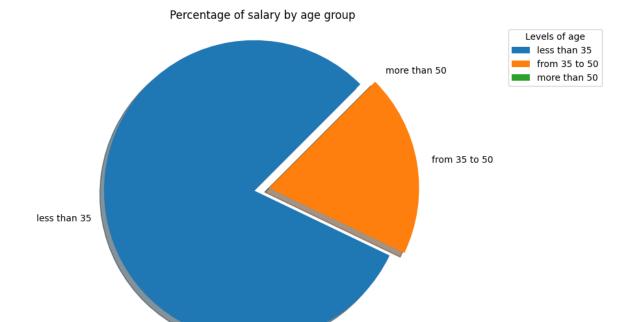


Case-11

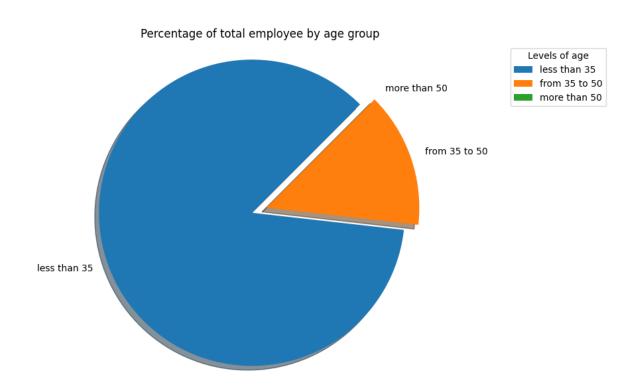
/menu



/menu



/menu



/menu

19

Store file successfully

// results

```
e002,binh,20,500
e005,phu,27,500
e004,duy,22,550
e001,an,21,750
e003,cuong,25,800
e006,phung,37,1000
e007,nhung,27,1000
```

Case-15

/menu

20

BYE BYE

// Exit program