

Write an Employee Class

Modify the previous lab so you can read the employee data from a file, employee.txt file.

You can leverage any source codes that you have written from previous lab.

Write a class named `Employee` that has the following member variables:

- `name`—a string that holds the employee's name
- `idNumber`—an `int` variable that holds the employee's ID number
- `department`—a string that holds the name of the department where the employee works
- `position`—a string that holds the employee's job title

Read the employee text file employee.txt and the program need to perform the following:

- Read data file employee.txt file and parse each record (line) into individual field and store them into Employee class object.
- For each record (line), parse each field out of the record/line, store into class object Employee, you need to store each record into vector of Employee. The vector is defined as `vector<Employee> employeeList;`
- You need to print out the vector of Employee after you have finished reading the entire file. You need to use for loop to traverse and print out the entire vector of Employee.
- Your program output should look like the following:
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```
Name           ID      Dept      Position
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Susan Meyers   47899  Accounting Vice President
Mark Jones     39119  IT         Software Engineer
Joy Rogers     81774  Manufacturing Engineer
```

Your program submission:

1. Single pdf file contains all of the following:
 - a. Program description
 - i. Purpose of the program
 - ii. Program design logic – how do you designed the program (algorithm and key logic)
 - b. Include the source codes
 - c. All class object methods must be defined outside of the class object declaration.

- d. Include the screen shots of the program output when you test the program. Your test cases must include the one I mentioned in the conversion description.
2. Include zip file contains all the files you used for this program
 - a. Your source code must be properly documented and every function (including all the method functions within class object) MUST have the following information:
 - Description:
 - Parameters
 - Inputs/Outputs
 - You can use block comments for section of codes and/or line comments

Your program should output similar to the screen shot below:

Name	ID	Dept	Position
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Susan Meyers	47899	Accounting	Vice President
Mark Jones	39119	IT	Software Engineer
Joy Rogers	81774	Manufacturing	Engineer