# **M3Project (Classes and Inheritance)**

**Introduction**:

The assignment requires good understanding of several core concepts, File I/O , Exception Handling, Modules and Object Orientation

**Instructions**:

For this project, you will do the following:

Download the person.py module

**Note:** Before you start, consider dividing the program to Modules (**10 points**)

1. Create a **subclass** of the **Person class** , name it Employee. The Employee class will have the additional following attributes and methods: (**10 points**)
   * attribute: email (last name + "."+ "first name"+ @company.com)
   * attribute : position
   * attribute: salary
   * attribute:full\_part\_time
   * methods (create required accessors and mutators)
2. Create program that does following:
3. Displays a menu with following options (**10 points**)

1) Enter Employee info

2) Read Employee Info

3) Exit

1. If user enters 1, program is to ask user how many employees’ information do they want to enter. (**10 points**)
2. After user enters number of Employees information they want to enter, user should be prompted to enter employee information (one at a time)
3. Once information is entered, it is to be stored in a list
4. After ALL Employee information is entered, information is to be written to a file ( in a tabular format, example shown below) (**10 points**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First Name** | **Last Name** | **Email(company email)** | **Position** | **Full/Part time** | **Salary** |
| Tom | Smith | smith.tom@company.com | Manager | Full | 2000 |

1. **If user enters 2** (Reading Employee info), verify that employee.txt file exists, if not , notify the user. *Hint: Exception handling* (**10 points**)
2. If file exists, read information (each line to be stored as a class record in a list) then display the information in a tabular format to the user (**10 points**)
3. **If user enters 3**, the program should terminate. (**10 points**)

**Note:** if user’s choice is invalid, NOT a valid menu option , notify the user that the choice is invalid. Display the menu again and prompt them to make a valid choice (**10 points**)

**Submit** your finished code solution file(s) through the assignment link below

**Grading criteria**:

• Shown next to each required point in instructions above

• Pseudocode and block comment (**10 points** )