Year 3- Semester 1

Course: CC319 Adv. Programming using C#.

Computer Engineering Dr. Wael Zakaria

Due Date: Thursday 31-12-2020 (11:59 pm)



12th Week Project

- ❖ Using File process and GUI, implement **an interactive GUI** to keep track a company that contains a set of employees, each employee works on one department. Each department has number, name, and address. Each department has a list of employees. The GUI should have many forms (or any alternatives):
 - Form for inserting department data and store it in a file.
 - Form for inserting employee data and store it in a file.
 - Form for display each employee information and his/her department. This
 form should have previous button, next button, first button, and end button
 for getting the previous employee, next employee, first employee, and last
 employee, respectively.
 - Form for searching employee by name or ssn.
 - Form for displaying the summation of the salaries of each department.
 - Form for displaying each employee lives in Huston city.
 - Form for displaying each department and their employees.
- You should give a user the ability to switch between forms.
- Your forms must restrict the entering data according to the following conditions:
 - Department:
 - o name should be characters only.
 - o number should be numbers only.
 - Location should be a combo box of "Cairo, Alex, Banha"
 - Employee
 - o First name, Last name should be characters only.
 - Minit should be one character.
 - Ssn should be 9 characters.
 - Sex should be two radio buttons M for male and F for female.
 - Salary should be double.
 - Department Number should be combo box that contains data from the department table.
 - Birthdate should be calendar.

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Employee

First Name	Minit	Last Name	SSN	Birthdate	Address	Sex	isalarv l	Department Number
John	В	Smith	123456789	1965-01- 09	731 Fondren, Houston, TX	М	30000.00	5
Franklin	Т	Wong	333445555	1955-12- 08	638 Voss,Houston,TX	М	40000.00	5
Joyce	А	English	453453453	1972-07- 31	5631 Rice, Houston, TX	F	25000.00	5
Ramesh	K	Narayan	666884444	1962-09- 15	975 Fire Oak, Humble	М	38000.00	5
James	E	Borg	888665555	1937-11- 10	450 stone,Houston,TX	М	55000.00	1
Jennifer	S	Wallace	987654321	1941-06- 20	291 Berry,Bellaire,TX	F	43000.00	4
Ahmed	V	Jabbar	987987987	1969-03- 29	980 Dallas, Houston, TX	М	25000.00	5
Alicia	J	Zelaya	199988////	1968-01- 19	3321 Castle,Spring,TX	F	25000.00	4

Department

Name	Number	Address	
Headquarters	1	Cairo	
Administration	4	Alex	
Research	5	Banha	

- ❖ Your program must have two classes Employee and Department.
- ❖ Your program should be robust, clear, reusable, documented, attractive and efficient.
- ❖ You can assume any assumption to enhance your code.

With My Best Wishes

Dr. Wael Zakaria