Assignment 1

PROG32356

Instructions

- Complete the assignment provided.
- Zip your project and all files and upload to Slate by the due date.
- Corrupt/incorrect submissions will result in a 30% penalty.
- The app must be bug free and will incur a 30% penalty for even a single crash.
- This work is individual. Zero collaboration is allowed.
- App must already come with pre loaded data (5 lines per collection minimum)
- Mark breakdown:
  - 10% for correct submission
  - 30% for LINQ usage
  - 30% for custom class usage
  - 30% for console menu system

Assignment 1

- Create a console app using C# and .Net
- Create an Employee management system that will do the following:
  - Add, update, delete an employee (ID, name, address, email, phone, role)
  - Payroll feature for adding this weeks wages (ID, employeeID, hours worked, hourly rate, date)
  - Vacation days (ID, employeeID, numberOfDays)
    - Each employee will be given 14 days when a new employee is added and will increment by 1 when a new payroll entry is entered for that employee.
- Use collections to store your data, you must use a custom class for Employee, Payroll and Vacation.
- Use LINQ to query, insert, update, delete from collections.

Assignment 1

- Your console application must have a hierarchy of menus and run continuously until the person quits the application:
- Example:
  - Menu 1:
    - Welcome, please choose a command:
      - Press 1 to modify employees
      - Press 2 to add payroll
      - Press 3 to view vacation days
      - Press 4 to exit program
  - Menu 2: (Employees)
    - Press 1 to list all employees
    - Press 2 to add a new employee
    - Press 3 to update …
    - Press 4 to delete …
    - Press 5 to return to main menu

Assignment 1

- Example continued:
  - Menu 3: (Payroll)
    - Press 1 to insert new payroll entry
    - Press 2 view payroll history for an employee
    - Press 3 to return to main menu
  - Menu 4: (Vacation days)
    - Press 1 to view vacation days
    - Press 2 to ….
    - Press … to return to the main menu
- Note: all functions listed above must actually perform insert/update/delete/view into a collection of your choice and must use LINQ to perform the query.