**Homework ECE2310**

**Deliverables:**

*For each question ,*

1. *Create a Word document that contains the UML design , the code and the execution window of the program*
2. *Create the project folder.*
3. *Zip the above two files into one .zip file and submit it in Blackboard.*

1. Create an Employee **class**. Items to include as data members are employee number, first name, last name, and monthly salary. Include default and overloading constructors , also include a method that calculates the annual pay of the employee, and a method to display the information of the employee. Create a second **class** to test your Employee **class** by instantiating two Employee objects and display all the above information of each individual.

2. Write a program that includes an Employee **class** that can be used to calculate and print the take-home pay for a commissioned sales employee. Items to include as data members are employee number, first name, last name, and total sales. All employees receive 9% of the total sales of the month. Federal tax rate is 18%. Retirement contribution is 10%. Social Security tax rate is 6%. Use appropriate constants, design an object-oriented solution, and write constructors. Include at least one mutator and one accessor method; provide properties for the other data members. Create a second **class, or a driver program,** to test your design. Allow the user to enter values for the name of the employee and the sales amount for the month in the driver program as “Mike”, “Johnson”, and $50,000.