2016 Fall CIS200 – Lab 6

Due date: November 2 , 2016

Student Name: Section # :002

**Question 1.**

Construct a Use Case Diagram of Customer on the basis of the following specification:

Three Actors: Customer, ATM and Bank

Four Use Cases:

(1) Deposit money: invoked by Customer and handled by either ATM or Bank

(2) Withdraw money: invoked by Customer and handled by either ATM or Bank

(3) Notify transaction: invoked by ATM and received by Bank

(4) Repair machine: invoked by Bank to repair a problem on ATM

**Question 2.**

Construct a Class Diagram of Employee on the basis of the following specification:

Three Classes: Employee, Fulltime Staff and Part-time Staff

**Class Employee:**

**Attributes:**

Name: String (public)

Address: String

ID#: String

SSN: String

**Actions:**

reportTax():double 🡪 Takes no parameters (public)

**End Class Employee**

**Class Fulltime Staff:**

**Attributes:**

Annual salary: float

Health plan: string

**Actions:**

selectBenefit() 🡪 Takes no parameters (public)

**End Class Fulltime Staff**

**Class Part-time Staff:**

**Attributes:**

HourlyRate: float

Weekly hours: int

**Actions:**

fillReport() 🡪 Takes no parameters

**End Class Part-time Staff**

The relationship among these three classes is that Class Employee is the generalization of Class Fulltime Staff and Class Part-time Staff. .

**UML Software**: ***You must use Microsoft Visio t***o draw the requested diagrams, and then paste them into a MS word document.

# **Submission:**

Provide a Microsoft word that contains the following items:

1. The lab number and title, your name, class you are registered in, lab you are registered in, date
2. The UML diagrams for each of the following

Submit the word document to Canvas.