# Programming II

Comp 111 Spring 2020



Department of Computer Science Forman Christian College University

# Lab 12 Multilevel Inheritance

Question #	Total Marks
Question 1	5
Question 2	5

### Lab Problem

#### **Question 1: (Multilevel Inheritance)**

Make a class Employee with a name and salary. Make a class Manager inherit from Employee. Add an instance variable, named \_department, that stores a string. Supply a method Display that prints the manager's name, department, and salary. Make a class Executive inherit from Manager. Supply appropriate Display methods for all classes. Supply a test program that tests these classes and methods.

#### Question 2: (Abstract classe)

Create an abstract class polygon that has a method getnoofsides() and getarea() and it has three subclasses triangle, rectangle and square each with its own two methods getnoofsides and getarea and their respective implementations accordingly.

### Question 2: (Abstract class and polymorphism)

Implement a super class Account which will have accountTitle, currentBalance as its attribute and a method InterestRate() and getStatus(). Also implements three sub classes SBI, ICICI, AXIS each having InterestRate() and getStatus(). The interest rate are 5, 6, and 8 % respectively for the three on the currentBalance. Provide a driver program that creates objects for the three subclasses in a list and displays information by calling getStatus() in loop.