Programming II
Comp 111
Spring 2022

Department of Computer Science
Forman Christian College University

Lab 8
Inheritance

Question #	Total Marks
Question 1	5
Question 2	5

Lab Problem

Question 1:
Implement a base class Polygon which has only one attribute, numOfSides, a constructor and a method inputSides(). This class has two derived classes Triangle and Square. Both will have a method Area() that will find the area for each and a display() method that will print the area.

Question 2:
Implement a class Person having attributes PersonID, PersonName. Make a *Patient* class that inherits Person class and has attributes *PatientDisease and Treatment*. It should also have a method *Chart()* that prints the demographics(ID,Name,Disease,Treatment) of the patient. Implement another class Doctor(also inherits Person class), which will have a method *treat()* that suggests the type of the *Treatment* to the *Patient*.

Hint: Workflow will be ….Create patient but without any value in treatment. Then create doctor. After that call doctor treatment function and pass the patient object to set the treatment variable.