North South University Department of Electrical and Computer Engineering CSE 215L: Programming Language II Lab

Lab – 10: Inheritance & Polymorphism

Objective:

- To understand inheritance
- To understand polymorphism

Plant Flower extends Plant - hasSmell: boolean - name: String - color: String - hasThorn: boolean /* constructor */ /* constructor */ /* accessor-mutator */ /* accessor-mutator */ /* toString */ /* toString */ Herb extends Plant - isMedicinal: boolean season: String * constructor */ /* accessor-mutator */ toString */

In main method, create an array of Plant objects and implement these methods: static void add(Plant [] plants, Plant p) // to add new plant object into the array static void remove(Plant [] plants, String n) // remove a plant given its name static Plant search(Plant [] plants, String n) // search for a plant given its name static void display(Plant [] plants) // display all Plant objects