Objective:
● To understand inheritance
● To understand polymorphism

```
            Plant                              Flower extends Plant

- name: String                         - hasSmell: boolean
- color: String                        - hasThorn: boolean

/* constructor */                      /* constructor */
/* accessor-mutator */                 /* accessor-mutator */
/* toString */                         /* toString */


         Herb extends Plant

- isMedicinal: boolean
- season: String

/* constructor */
/* accessor-mutator */
/* toString */
```

Under MainClass implement following methods :
static void add(Plant [ ] plants, Plant p) // to add new plant object into the array
static Plant [ ] 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

In the main method, **create an array of Plant objects** and invoke the above methods. Some of the Plant objects **should achieve** the **properties of Polymorphism** by **upper casting** Flower and Herb classes to Plant object.
Note : In chile classes, **override the toString()** method to show plant name, plant color along with class properties. **Create a static variable length to trace the size of the array.**