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CSCI 136

Lab 6 and 7 UML Diagram:

<<Animal>>

* Species: String
* name: String
* age: int
* gender: String

**Methods:**

+ setName(name) - void

+ getName() - String

+ setAge(int) – void

+ getGender() – Boolean

+ setGender(Boolean) - void

Beaver extends Animal:

* type: String
* locationofLodge: string
* familysize: int

**Methods:**

+ Beaver(String name, int age, char gender, String type, String lodge) - void

+ getType() – String

+ setType(String) - void

+ getlocation(String) - String

+ setlocation(String) - void

+ getfamilysize() - int

+setfamilysize(int) – void

+awesomeness()-void

Elk extends Animal:

* type: String
* Antlersize: double
* PlaceInHerd: String

**Methods:**

+ Elk(String elk\_name, int elk\_age, char elk\_gender, double elk\_antlerSize, int elk\_rankInPack) - void

+ getType() - String

+ setType(String - void

+ getantlersize() - double

+ setantlersize(double) - void

+ getplaceinherd() - int

+ setplaceinherd(int) – void

+ huntRegulations() – void

Bear extends Animal:

* type: String
* historyofDanger: Boolean
* sluethSize: int

**Methods:**

+ Bear()String name, int age, char gender, String type, Boolean historyOfDanger,

int sluethSize)

+ getType() - String

+ setType(string) – void

+ getHistoryOfDanger() – Boolean

+ setHistoryOfDanger(Boolean) – void

+ getSluethSize() – int

+ setSluethSize(int) – void

+ bearProtocal() – void

WildLifePreserve

* wildlife []: Animals

**Methods:**

+ fillAnimalArr(Animals[] Wildlife) – void

+ wildLifeReport(Animals[] Wildlife) – void

+ BearCount(Animals[] Wildlife) - int

+ BeaverCount(Animals[] Wildlife) - int

+ ElkCount(Animals[] Wildlife) – int

+ BearReport(Animals[] Wildlife) - void