

BASIC TESTING -- For Bird subclasses

@Test	Example	Expected
TestConstructor	BirdOfPrey("Hawks", ["Sharp Hooked beaks"], False, 2, ["Other birds"])	Expect values to be passed to the constructor, verify by checking.
TestgetType()	birdObject.getType()	"Hawks"
TestgetCharac()	birdObject.getCharac()	["Sharp Hooked beaks"]
TestgetisExtinct()	birdObject.getisExtinct()	False
TestgetNumOfWings()	birdObject.getNumOfWings()	2
TestgetFoodPref()	birdObject.getFoodPref()	["Other birds"]
TetstaddCharac()	birdObject.addCharac("Visible Nostrils")	["Sharp Hooked beaks", "Visible Nostrils"]
TestsetCharac()	birdObject.setCharac("Visible Nostrils")	["Visible Nostrils"]
TestremoveCharac()	birdObject.removeCharac("Visible Nostrils")	["Sharp Hooked beaks"]
TestsetType()	birdObject.setType("Eagles")	"Eagles"
TestsetIsExtinct()	birdObject.setIsExtinct(True)	True
TestsetNumOfWings()	birdObject.setNumOfWingst(1)	1
TestsetFoodPref()	birdObject.setFoodPref(["Fruit"])	["Fruit"]
TestaddFoodPref()	birdObject.addFoodPref("Insects")	["Other birds", "Insects"]
TestremoveFromFoodPref()	birdObject.removeFromFoodPref("Insects")	["Other birds"]
TesttoString()	birdObject.toString()	"Type of Bird: Hawk; Characteristics: Sharp hooked beaks;

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SPECIFIC BIRD SUBCLASS TESTING -- Parrots, Waterfowls, Shorebirds

@Test	Example	Expected
TestsetBodyOfWater	birdObject.setBodyOfWater(["Freshwater", "Saltwater"])	["Freshwater", "Saltwater"]
TestaddBodyOfWater	birdObject.addBodyOfWater("Wetlands")	["Freshwater", "Saltwater", "Wetlands"]
TestremoveBodyOfWater	birdObject.removeBodyOfWater("Freshwa ter")	["Saltwater"]
TestInvalidNumOfWaterBodies	birdObject.removeBodyOfWater("Saltwate r")	IllegalStateExceptton
TestgetBodyOfWater	birdObject.getBodyOfWater()	["Freshwater", "Saltwater"]
TestsetNumOfVocabWords	birdObject.setNumOfVocabWords(100)	100
TestgetNumOfVocabWords	birdObject.getNumOfVocabWords()	100
TestMinNumOfVocabWords	birdObject.setNumOfVocabWords(-1)	IllegalArgumentException
TestsetFavWord	birdObject.setFavWord("Apples")	Apples
TestgetFavWord	birdObject.getFavWord("Apples")	Apples

ASSERTION TESTING

<pre>@Test(expected = IllegalArgumentException.class)</pre>	Example	Expected
TestInvalidType	BirdOfPrey("Owl", ["Sharp Hooked beaks"], False, 2, ["Other birds"])	IllegalArgumentException
TestInvalidCharacteristic	BirdOfPrey("Owl", ["Facial disks"], False, 2, ["Other birds"])	IllegalArgumentException
TestInvalidCharacterAdd	birdObject.addCharac("Furry")	IllegalArgumentException
TestInvalidCharacterSet	birdObject.setCharac("Furry")	IllegalArgumentException
TestInvalidFoodSet	birdObject.setFoodPref("Potatoes")	IllegalArgumentException
TestInvalidFoodAdd	birdObject.addFoodPref("Potatoes")	IllegalArgumentException

EDGE CASE TESTING

@Test	Example	Expected
TestLowerNumOfWings	BirdOfPrey("Owl", ["Sharp Hooked beaks"], False, -2, ["Other birds"])	IllegalArgumentException
TestMaxNumOfWings	BirdOfPrey("Owl", ["Sharp Hooked beaks"], False, 3, ["Other birds"])	IllegalArgumentException
TestIllegalWingNumSet	birdObject.setNumOfWings(-2)	IllegalArgumentException
TestIllegalWingNumSet	birdObject.setNumOfWings(3)	IllegalArgumentException
TestInvalidNumOfCharacs	birdObject.removeCharac("Sharp Hooked beaks")	IllegalStateExceptton
TestInvalidMinNumOfFood	birdObject.removeFoodPref("Other animals")	Assert cannot have less than 2 food preference
TestInvalidMaxNumOfFood	birdObject.addFoodPref("Other animals")	Assert bird object cannot have more than 4 food preferences

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