



Testing Plan:

Testing addIsolation	Input	Expected Val
Correct Name	addIsolation("I1")	true
Duplicate Name	addIsolation("I1")	false

Testing addEnclosure	Input	Expected Val
Correct Name and Size	addEnclosure("E1", 200)	true
Duplicate Name	addIsolation("E1", 150)	false
Negative size	addEnclosure("E2", -20)	IllegalArgumentException
Negative size	addEnclosure("E1", 0)	IllegalArgumentException

Testing listSpecies	Input	Expected Val
If there are some species already present.	Isolation: "I1", Species: "drill" Isolation: "I2", Species: "drill" Enclosure: "E3", Species: "drill" Isolation "I3", Species: "saki"	Drill: Isolation – I1, I2 Enclosure – E3 Saki: Isolation – I3
If there are no species present	Empty isolations and enclosures	"The Sanctuary is empty!"

Testing housingOfSpecies	Input	Expected Val
If there is atleast one monkey of that species	Isolation: "I1", Species: "drill" Isolation: "I2", Species: "drill" Enclosure: "E3", Species: "drill" Isolation "I3", Species: "saki" housingOfSpecies("drill")	Drill: Isolation – I1, I2 Enclosure – E3
If there are no species present	housingOfSpecies("spider")	"The sanctuary currently does not have any spider species"

Testing listMonkeys	Input	Expected Val
If there is atleast one monkey present	Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4, FavFood.EGGS) in Isolation "I1" Monkey("Charla", "saki", Sex.FEMALE, 15, 17, 5, FavFood.FRUIT) in Enclosure "E2" Monkey("Bruno", "drill", Sex.MALE, 33, 15, 6, FavFood.EGGS) in Isolation Enclosure "E1"	Aladin – I1 Bruno – E1 Charla – E2

If there are no species present		"The sanctuary currently does not have any monkeys"
---------------------------------	--	---

Testing getShoppingList()	Input	Expected Val
If there is atleast one monkey of that species	<p>Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4, FavFood.EGGS) in Isolation "I1"</p> <p>Monkey("Charla", "saki", Sex.FEMALE, 15, 17, 5, FavFood.FRUIT) in Enclosure "E2"</p> <p>Monkey("Bruno", "drill", Sex.MALE, 33, 15, 6, FavFood.EGGS) in Enclosure "E1"</p> <p>Monkey("Doyl", "saki", Sex.FEMALE, 5, 17, 5, FavFood.INSECTS) in Enclosure "E2"</p>	<p>Shopping List:</p> <p>Eggs: 1000 grams</p> <p>Fruits: 250 grams</p> <p>Insects: 100 grams</p>
If there are no species present	housingOfSpecies("spider")	"The sanctuary currently does not have any monkeys"

Testing moveMonkey	Input	Expected Val
Monkey completed medical attention and space is available in enclosure	<p>Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4, FavFood.EGGS) in Isolation "I1"</p> <p>"E1" contains drills with: total space=200, available space=190</p> <p>moveMonkey("Aladin")</p>	true
Monkey completed medical attention, space is not available in enclosure but new enclosure is available	<p>Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4, FavFood.EGGS) in Isolation "I1"</p> <p>"E1" contains drills with: total space=200, available space=5</p> <p>moveMonkey("Aladin")</p>	true(the monkey should be moved to next available enclosure)
Monkey completed medical attention; no space is available in any enclosure	Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4,	false

	FavFood.EGGS) in Isolation "I1" "E1" contains drills with: total space=200, available space=5 moveMonkey("Aladin")	
Monkey requires medical attention	Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4, FavFood.EGGS) in Isolation "I1" requireMedicalAttention: true moveMonkey("Aladin")	False
Name of Monkey is not in the Sanctuary list	moveMonkey("Zero")	false

Testing giveMedicalAttention()	Input	Expected Val
The isolation housing name valid	giveMedicalAttention("I2")	Creates a new Monkey instance from user inputs
The isolation housing name invalid	giveMedicalAttention("J5")	"No such isolation housing present"

Testing enclosureSign()	Input	Expected Val
The isolation housing name valid	Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4, FavFood.EGGS) in Enclosure "E2" Monkey("Charla", "saki", Sex.FEMALE, 15, 17, 5, FavFood.FRUIT) in Enclosure "E2" Monkey("Bruno", "drill", Sex.MALE, 33, 15, 6, FavFood.EGGS) in Enclosure "E2" Monkey("Doyl", "saki", Sex.FEMALE, 5, 17, 5, FavFood.INSECTS) in Enclosure "E2" enclosureSign("E2")	Sign: Aladin Male Eggs Bruno Male Eggs Charla Female Fruits Doyl Female Insects
The enclosure is empty	enclosureSign("E3")	"The enclosure is empty"
The enclosure name is invalid	enclosureSign("J5")	"No such enclosure housing present"

Testing constructor for class Monkey	Input	Expected Val
Valid fields	Monkey("Aladin", "drill", Sex.MALE, 23, 13, 4, FavFood.EGGS)	New Monkey info successfully created
Invalid size	Monkey("Aladin", "drill", Sex.MALE, -23, 13, 4, FavFood.EGGS)	IllegalArgumentException: Size should be > 0.
Invalid weight	Monkey("Aladin", "drill", Sex.MALE, 23, -13, 4, FavFood.EGGS)	IllegalArgumentException: weight should be > 0.
Invalid age	Monkey("Aladin", "drill", Sex.MALE, 23, 13, 0, FavFood.EGGS)	IllegalArgumentException: Age should be > 0.