The Design Recipe

For the word problems below, assume you have ${\tt animal B}$ and ${\tt animal B}$ defined in your code.

Directions: Define a function called is-dog, which consumes a Row of the animals table and *computes* whether the animal is a dog.

Cont	ract and Purp	ose Sta	tement										
Every co	ontract has three	parts											
#	is-dog	j::				(r	:: R	ow)			->	Boolean	
	function name	_					domain					range	
# Con	sumes an ani	mal, and	computes v	whethe	r tl	he sp	pecies	== "dog'	"				
						what do	es the fun	ction do?					
Exam	nples												
Write so	ome examples, the	en circle an	d label what cha	nges									
examp	ples:												
	is-do	g ("animalA)	is	anim	alA["spe	ecies"]	== "dog'	ı		
-	function name		input(s)		•	·			wha	t the function produc	ces		
	is-do	g ("animalB)	is							
	function name		input(s)		-	•			wha	t the function produc	es		
end													
Defir	nition												
Write th	he definition, givin	g variable ı	names to all you	r input va	lues	5							
fun	is-	dog(r):									
_	function name		variable(s)										
r['	"species"]	== "d	og"										
				what	the fi	unction a	does with	those variable(s)					_
end													
Every co	e. ract and Purp ontract has three		tement										
#		<u>::</u>									>_		
.,	function name						domain					range	
#													
		_				what do	es the fun	ction do?	_				
Exam	nples												
Write so	ome examples, the	en circle an	d label what cha	nges									
examp	ples:												
		()	is							
	function name		input(s)		•	•			wha	t the function produc	ces		
		()	is							
end	function name		input(s)		-	•			wha	t the function produc	ces		
Defir	nition												
	he definition, givin	g variable ı	names to all you	r input va	lues	5							
fun	. , , , ,	(,):									
	function name	`_	variable(s)	—'									
	-		.,										
				what	the fi	unction a	does with	those variable(s)					_

end