## Model 1 Map of Team Names

The following abbreviations are for National Football League (NFL) teams:

ATL	Atlanta Falcons	
DEN	Denver Broncos	
IND	Indianapolis Colts	
MIA	Miami Dolphins	
SEA	Seattle Seahawks	

Complete the table below using *JShell* (the same way you did for ??).

Java code	Shell output
Map <string, string=""> teams;</string,>	
teams = new Map<>();	
<pre>teams = new HashMap&lt;&gt;();</pre>	
teams.isEmpty()	
teams.put("MIA", "Miami Dolphins")	
teams.put("MIA", "Miami")	
teams.size()	
teams	
teams.put("ATL", "Atlanta")	
teams.put("SEA", "Seattle")	
teams	
teams.containsKey("ATL")	
teams.containsKey("DEN")	
teams.containsValue("Miami")	
teams.containsValue("Dolphins")	
teams.get("SEA")	
teams.get("IND")	
teams.get(0)	
teams.remove("MIA")	
teams.remove("MIA")	
teams	
teams.keySet()	
teams.values()	

## Questions (25 min)

## **Start time:**

1.	For the collection above:	
	a) What is the interface?	c) What type of keys?
	b) What is the class?	d) What type of values?
2.	Based on the shell output, describe what the fo	llowing methods return:
	a) put	
	b) get	
3.	What type of object does the keySet method re	turn? Describe its contents.
4.	What type of object does the values method re	turn? Describe its contents.
5.	In your own words, summarize what a Map is in	n Java. Give an example from everyday life.
6.	Why did teams.get(0) return null, even thoug	th there were values in the map?

7. Write Java code that defines a map named dow that represents the seven days of the week as follows: Sun=1, Mon=2, Tue=3, etc. Run your code in <i>JShell</i> to make sure it works.
8. Print the dow variable in <i>JShell</i> . What do you notice about the order of its contents?