## Programming language options and functional programming

6/6 points (100%)

Quiz, 6 questions

## **✓** Congratulations! You passed!

Next Item



1/1 points

1.

Which programming languages can be used for using GraphX, the ApacheSpark graph processing engine? (Select all that apply)

R

**Un-selected** is correct



Scala

Correct

Correct



Python

**Un-selected** is correct



1/1 points

2

What is the result of the following code?

```
1 def f(x):
2  return (x+2)*2
3  1 = [1,2,3,4]
4 map(f,1)
```

Hint: "map" is the python equivalent to "apply" used in the lecture

This is an example of a correct input format (although others are accepted as well):

[3, 6, 1, 25]

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Programn	ning language options and functional programming 6/	6 points (100%)
Quiz, 6 questions	Correct Response Correct	
	V 1/1 points	
	<ul><li>3.</li><li>What is the result of the following python code running on top of ApacheSpark (pyspark)</li><li>?</li></ul>	
	1 sc.parallelize([1,2,3,4,5]).reduce(lambda a,b:a+b)	
	15	
	Correct Response Correct	
	✓ 1/1 points	
	4. What has to be changed in an ApacheSpark program using only functions on the RDD API which has been tested on 1 KB of data if it should run on 1 PB of data?	
	Nothing	
	Correct Correct, ApacheSpark code is already parallel code running on top of the RDD API, it doesn't matter how bit the RDD is	
	You have to implement it in a parallel way	

points

5.

In which programming languages do you find the most libraries for data science specific

Programm	ring language options and functional programming	6/6 points (100%)
Quiz, 6 questions	Java	
	Un-selected is correct	
	Scala	
	Un-selected is correct	
	Python	
	<b>Correct</b> Correct	
	Correct	
	R R	
	Correct	
	Correct	
	1/1 points	
	6.	
	Data frames are the central data structure in R and also in python's Pandas. But they not using ApacheSpark in the background, therefore what is the major limitation of daframes used in R or python's Pandas?	
	They are not as cool as ApacheSpark	
	They are not running in parallel on multiple machines	
	Correct	
	They are not OpenSource	
	They are very unstable	