databricks

Assignment 43.1 - Scala1 (Scala)

Import Notebook

```
// Databricks notebook source
/*
Given a list of strings - List[String] ("alpha", "gamma", "omega", "zeta", "beta")
- find count of all strings with length 4
- convert the list of string to a list of integers, where each string is mapped to its corresponding length
- find count of all strings which contain alphabet 'm'
- find the count of all strings which start with the alphabet 'a'
*/
```

```
// COMMAND ----------
// 1. Given a list of strings - List[String] ("alpha", "gamma", "omega", "zeta", "beta") , Create a list

val list = List("alpha", "gamma", "omega", "zeta", "beta")

list: List[String] = List(alpha, gamma, omega, zeta, beta)
```

```
// COMMAND ----------

// 2.1 Find count of all strings with length 4
// Method-1
list.count(x => x.length == 4)

res8: Int = 2
```

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```
// COMMAND ----------

// 2.2 Find count of all strings with length 4
// Method-2
list.count(_.length == 4)

res9: Int = 2
```

```
// COMMAND ----------

// 3.1 Convert the list of string to a list of integers, where each string is mapped to its corresponding length
list.map(s => (s.length))

res10: List[Int] = List(5, 5, 5, 4, 4)
```

```
// COMMAND ----------

// 3.2 convert the list of string to a list of integers, where each string is mapped to its corresponding length
// List is having mapping of each string with the corresponding length
list.map(s => (s, s.length))

res11: List[(String, Int)] = List((alpha,5), (gamma,5), (omega,5), (zeta,4), (beta,4))
```

```
// COMMAND ----------

// 3.1 find count of all strings which contain alphabet 'm'
list.map(s => s.count(_ == 'm')).count(s => s != 0)

res12: Int = 2
```

```
// COMMAND ----------

// 4.1 find the count of all strings which start with the alphabet 'a'
list.map(s => s(0) == 'a').count(s => s == true)

res13: Int = 1
```