Session 12: INTRODUCTION TO SCALA - SESSION I

Assignment 12.3

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Course: Big Data Hadoop & Spark Training

Start Date: 2017-09-09

End Date: 2017-11-26

Assignment 12.3– Create a list of tuples, where the 1st element of the tuple is an **'int'** and the second element is a string.

Contents

Introduction

In this assignment, we are going to write a SCALA REPL commands to achieve the provided task,

Problem Statement

Create a list of tuples, where the 1st element of the tuple is an int and the second element is a string.

Example - ((1, 'alpha'), (2, 'beta'), (3, 'gamma'), (4, 'zeta'), (5, 'omega'))

- For the above list, print the numbers where the corresponding string length is 4
- Find the average of all numbers, where the corresponding string contains alphabet 'm' or alphabet 'z'

Task 1

For the above list, print the numbers where the corresponding string length is 4,

SCALA REPL

Scala>var tuple : List[(Int,String)] = List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"))

Scala>tuple: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))

```
scala> println("********##########**********Assignment 12.3********##########**********")
********##########**********Assignment 12.3********##########**********
```

```
scala> var tuple : List[(Int,String)] = List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"))
tuple: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))
```

Now print the numbers where the corresponding string length is 4,

Scala> tuple.filter(_._2.length == 4).foreach (x=> println(x._1))

Reqired Output

```
scala> tuple.filter(_._2.length == 4).foreach (x=> println(x._1))
2
4
```

Task2

Find the average of all numbers, where the corresponding string contains alphabet '**m'** or alphabet '**z'**

SCALA REPL

scala> var tuple1 = tuple.filter(a=>(a._2.count(_=='m')!=0||a._2.count(_=='z')!=0))

tuple1: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))

scala> tuple1.map(_._1).sum/tuple1.size

res5: Int = 4

```
scala> var tuple1 = tuple.filter(a=>(a._2.count(_=='m')!=0||a._2.count(_=='z')!=0))
tuple1: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))
```

Required Output

```
scala> tuple1.map(_._1).sum/tuple1.size
res5: Int = 4
```