**Session 12: INTRODUCTION TO SCALA - SESSION I**

Assignment 12.3

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Course: Big Data Hadoop & Spark Training

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**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 2](#_Toc500864149)

[Problem Statement 2](#_Toc500864150)

[Task 1 2](#_Toc500864151)

[SCALA REPL 2](#_Toc500864152)

[Reqired Output 2](#_Toc500864153)

[Task2 3](#_Toc500864154)

[SCALA REPL 3](#_Toc500864155)

[Required Output 3](#_Toc500864156)

# 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))***

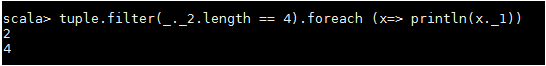




Now print the numbers where the corresponding string length is 4,

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

## Reqired Output



# 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***



## Required Output

