**Session 4**

**Assignment 4.8**

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Course: Big Data Hadoop & Spark Training

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"))***

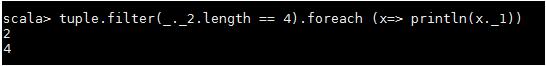
***Scala>tuple: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))***

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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***

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Required Output

