Assignment 14.1 - Scala 1.

Task 1
Given a list of strings - List[String] (“alpha”, “gamma”, “omega”, “zeta”, “beta”)

CMD: *val firstList = List("alpha","gamma","omega","zeta","beta")*

a) Find count of all strings with length 4.

CMD: *firstList.count(x => x.length == 4)*

b) Convert the list of string to a list of integers, where each string is mapped to its corresponding length.

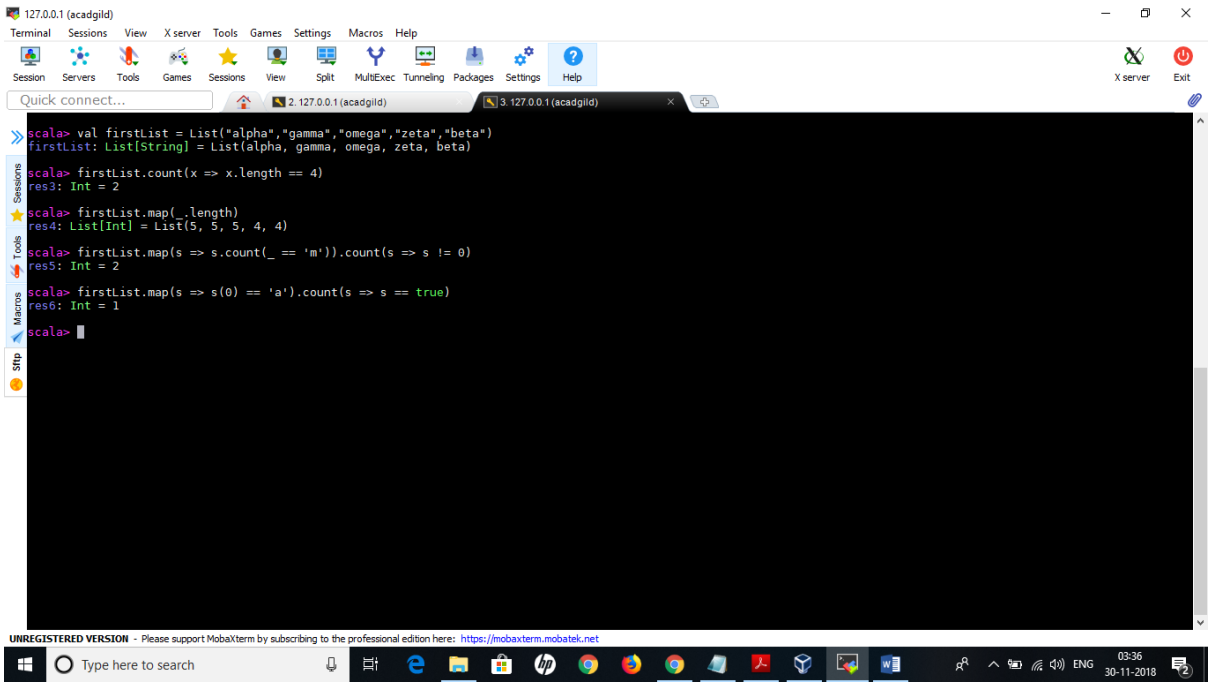
CMD: *firstList.map(_.length)*

c) Find count of all strings which contain alphabet ‘m’.

CMD: *firstList.map(s => s.count(_ == 'm')).count(s => s != 0)*

d) Find the count of all strings which start with the alphabet ‘a’.

CMD: *firstList.map(s => s(0) == 'a').count(s => s == true)*



Task 2
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’))

CMD: *val KeyValue = List((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))*

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

CMD: *KeyValue.filter(_._2.length == 4).foreach(x => println(x._2))*

b. find the average of all numbers, where the corresponding string contains alphabet ‘m’ or alphabet ‘z’.

CMD: *var KeyValue1= KeyValue.filter(a=>(a._2.count(_=='m')!=0||a._2.count(_=='z')!=0))*

KeyValue1.map(_._1).sum/KeyValue1.size