# **Bigdata Assignement 4.8**

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'

#### **Solution** -

- 1. Entered into spark shell by using command **spark-shell**
- 2. <u>Creatd the list of tuples</u>

```
var tuple = List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),
(5,"omega"))
```

```
scala> var tuple = 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))
scala> println(tuple)
List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))
```

#### Problem 1

Filtered the list where string length is equal to 4 and print its corresponding number

```
Ans – tuple.filter(x=>x._2.length == 4).map(_._1).foreach(println)
o/p:
2
4
```

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

## Problem 2

Filtered the list if a string contains m or z and then calculated its sum and divided by its size to get the average.

#### Ans

```
var tup2 = tuple.filter(x=>x.-2.contains("m") \parallel x._2.contains("z")) tup2.map(_._1).sum/tup2.size
```

## Output:

4

```
scala> var tup2 = tuple.filter(x=>x._2.contains("m") || x._2.contains("z"))
tup2: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))
scala> tup2.map(_._1).sum/tup2.size
res2: Int = 4
```