

Task 1

Given a list of strings - List[String] ("alpha", "gamma", "omega", "zeta", "beta")

```
val MyList = List[String] ("alpha", "gamma", "omega", "zeta", "beta")
```

- Find count of all strings with length 4.

Command: `MyList.count(x=> x.length == 4)`

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

Command: `val MyList_1 = MyList.map(MyList => MyList.length)`

- Find count of all strings which contain alphabet 'm'.

Command: `MyList.count(x=> x.contains("m"))`

- Find the count of all strings which start with the alphabet 'a'.

Command: `MyList.count(x=> x.startsWith("a"))`

al [C:\Users\Anupama Stanley\IdeaProjects\ScalaTutorial] - ...src\main\scala\Assignment13.sc [scalatutorial] - IntelliJ IDEA

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rial src main scala Assignment13.sc

build.sbt x sparktutorial.scala x Casestudy911.scala x mylearning.sc x Assignment13.sc x

```
1 val MyList = List[String] ( xs = "alpha", "gamma", "omega", "zeta", "beta")
2 //Find count of all strings with length 4
3
4 MyList.count(x=> x.length == 4)
5
6 //Convert the list of string to a list of integers, where each
7 // string is mapped to its corresponding length.
8
9 val MyList_1 = MyList.map( MyList => MyList.length )
10
11 //Find count of all strings which contain alphabet 'm'.
12
13 MyList.count( x=> x.contains("m"))
14
15 //Find the count of all strings which start with the alphabet 'a'.
16
17 MyList.count(x=> x.startsWith("a"))
18
```

```
MyList: List[String] = List(alpha, gamma, omega, zeta, beta)
res0: Int = 2
MyList_1: List[Int] = List(5, 5, 5, 4, 4)
res1: Int = 2
res2: Int = 1
```

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'))

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

Command: `for((i,s) <- tuple_list if(s.length ==4)) yield i`

- find the average of all numbers, where the corresponding string contains alphabet 'm' or alphabet 'z'.

Command: `val list_i = for((i,s) <- tuple_list.filter(x=> x._2.contains("m") || x._2.contains("z"))) yield i`

`val avg = list_i.sum/list_i.size`

```
19 //Task2
20
21 val tuple_list = List((1, "alpha"), (2, "beta"), (3, "gamma"),
22                       (4, "zeta"), (5, "omega"))
23
24 for((i,s) <- tuple_list if(s.length ==4) ) yield i
25
26 val list_i = for( (i,s) <- tuple_list.filter(x=> x._2.contains("m")
27 || x._2.contains("z"))) yield i
28
29 val avg = list_i.sum/list_i.size
30
31
32
```

```
19
20
21 tuple_list: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))
22
23
24 res3: List[Int] = List(2, 4)
25
26 list_i: List[Int] = List(3, 4, 5)
27
28
29 avg: Int = 4
30
31
32
```

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