

Assignment 12.3

Created a List of Tuples

```
var asgnmnt1 = List ((1, 'alpha'), (2, 'beta'), (3, 'gamma'), (4, 'zeta'), (5, 'omega'))
```

```
scala> var asgnmnt1 = List ((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))
asgnmnt1: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))
scala> █
```

1. print the numbers where the corresponding string length is 4

```
asgnmnt1.filter(a=> a._2.length ==4).map(_._1).foreach(println)
```

The out will give the index number of those tuples whose string has a length of 4.

```
scala> var asgnmnt1 = List ((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))
asgnmnt1: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))

scala> asgnmnt1.filter(a=> a._2.length ==4).map(_._1).foreach(println)
2
4
scala> █
```

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

```
var asgnmnt1_tup = asgnmnt1.filter(a =>( a._2.count(_ == 'm') != 0 || a._2.count(_ == 'z') != 0))
```

```
asgnmnt1_tup.map(_._1).sum/asgnmnt1_tup.size
```

this will give you the average of all the numbers whose corresponding string contains M or Z.

```
scala> var asgnmnt1 = List ((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))
asgnmnt1: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))

scala> var asgnmnt1_tup = asgnmnt1.filter(a =>( a._2.count(_ == 'm') != 0 || a._2.count(_ == 'z') != 0))
asgnmnt1_tup: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))

scala> asgnmnt1_tup.map(_._1).sum/asgnmnt1_tup.size
res2: Int = 4

scala> █
```