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.

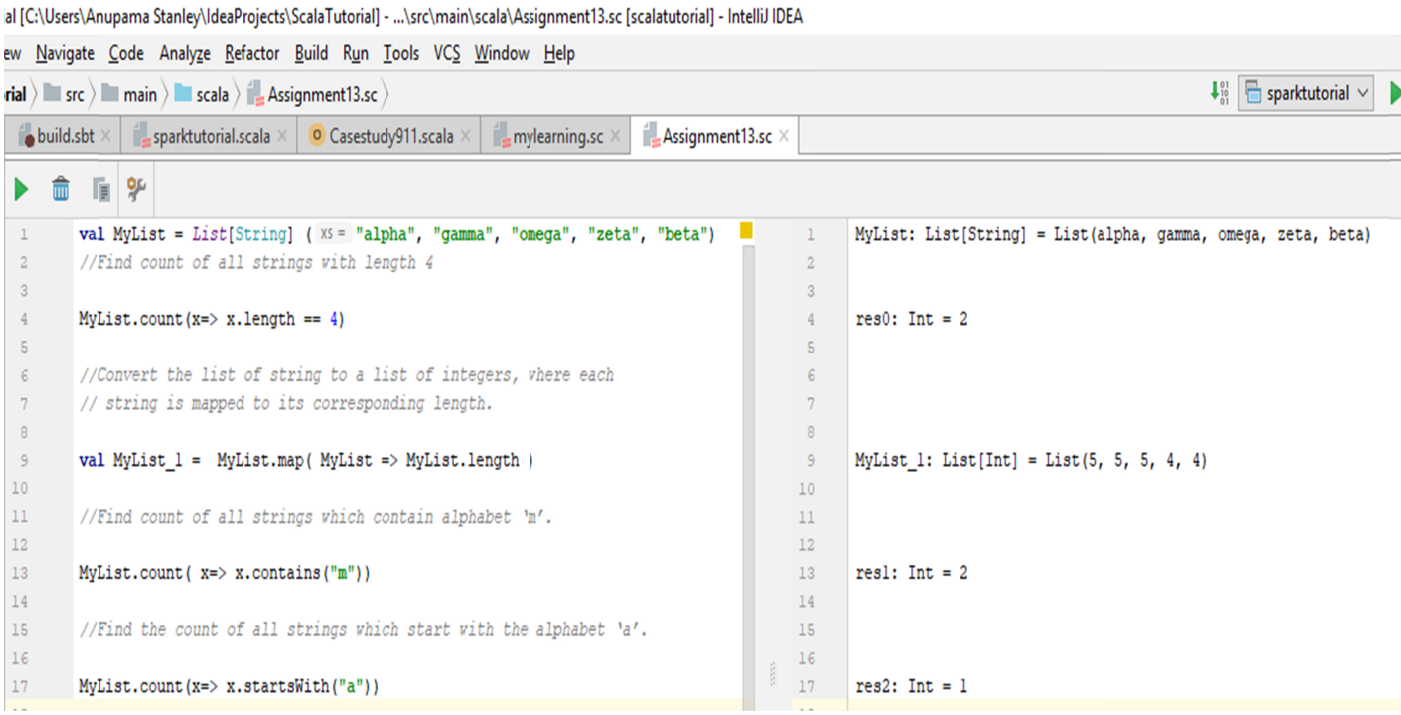
Command: `val MyList_1 =  MyList.map( MyList => MyList.length )`

- 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"))`



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
```