

## Task 1

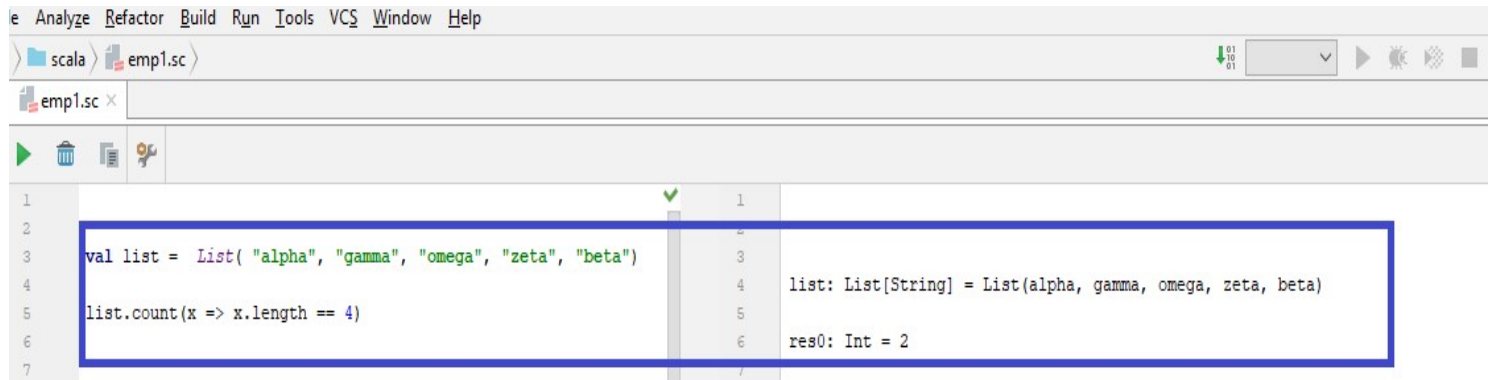
Given a list of strings - `List[String] ("alpha", "gamma", "omega", "zeta", "beta")`

1- Find count of all strings with length 4.

Script

```
val list = List( "alpha", "gamma", "omega", "zeta", "beta")

list.count(x => x.length == 4)
```



```
e Analyze Refactor Build Run Tools VCS Window Help
> scala > emp1.sc >
emp1.sc x
1
2
3 val list = List( "alpha", "gamma", "omega", "zeta", "beta")
4
5 list.count(x => x.length == 4)
6
7
```

1	list: List[String] = List(alpha, gamma, omega, zeta, beta)
2	
3	
4	
5	
6	res0: Int = 2
7	

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

```
val list1 = List( "alpha", "gamma", "omega", "zeta", "beta")

list1.foreach(z => println(z,z.length))
```

```
sers\srmaa\IdeaProjects\scale_exp] - ...src\main\scala\emp1.sc [scale_exp] - IntelliJ IDEA
Navigate Code Analyze Refactor Build Run Tools VCS Window Help
src > main > scala > emp1.sc
emp1.sc x
[Users\srmaa

[scale_exp-build 1
2
3 val list = List( "alpha", "gamma", "omega", "zeta", "beta")
4
5 list.count(x => x.length == 4)
6
7
8 val list1 = List( "alpha", "gamma", "omega", "zeta", "beta")
9
10 list1.foreach(z => println(z,z.length))
11
12
13
14
15
16
17
18
19

1
2
3
4 list: List[String] = List(alpha, gamma, omega, zeta, beta)
5
6 res0: Int = 2
7
8
9 list1: List[String] = List(alpha, gamma, omega, zeta, beta)
10
11 (alpha,5)
12 (gamma,5)
13 (omega,5)
14 (zeta,4)
15 (beta,4)
16 res1: Unit = ()
17
18
19
```

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

```
val list2 = List( "alpha", "gamma", "omega", "zeta", "beta")

list.count(y => y.contains("m"))
```

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

```
val list3 = List( "alpha", "gamma", "omega", "zeta", "beta")

list3.count(s => s.startsWith("a"))
```

please find below both task3 and 4 snapshot

	23	
	24	
val list2 = List( "alpha", "gamma", "omega", "zeta", "beta")	25	list2: List[String] = List(alpha, gamma, omega, zeta, beta)
list2.count(y => y.contains("m"))	26	res2: Int = 2
list2.foreach(y => println(y.y.contains("m")))	27	(alpha,false) (gamma,true) (omega,true) (zeta,false) (beta,false) res3: Un()
	28	
	29	
	30	
	31	
	32	
	33	
	34	
	35	
	36	
	37	list3: List[String] = List(alpha, gamma, omega, zeta, beta)
val list3 = List( "alpha", "gamma", "omega", "zeta", "beta")	38	
list3.count(s => s.startsWith("a"))	39	res4: Int = 1
	40	
	41	
	42	

## 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.

emp1.sc	tuple.sc	
val tuplelist1= List((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))	1	tuplelist1: List[(Int, String)] = List((1,alpha), (2,beta), (3, gamma), (4,zeta), (5,omega))
for ((a,b) <- tuplelist1 if (b.length ==4)) yield a	2	
	3	res0: List[Int] = List(2, 4)
	4	
	5	
val tuplelist2= List((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"))	6	tuplelist2: List[(Int, String)] = List((1,alpha), (2,beta), (3, gamma), (4,zeta), (5,omega))