

Task 1

- Creating list of strings,
- Finding count where string length is 4
- Converting list of Strings to list of Integers where each string is mapped to corresponding length.

```
scala> val stringList=List("alpha","gamma","omega","zeta","beta");
stringList: List[String] = List(alpha, gamma, omega, zeta, beta)

scala> stringList.count(s=>s.length == 4);
res1: Int = 2

scala> stringList.map(s=>s.length);
res2: List[Int] = List(5, 5, 5, 4, 4)
```

- Count of all strings which contains "m"
- Count of all string which starts with "a"

```
scala> stringList.count(s=>s.contains("m"));
res3: Int = 2

scala> stringList.count(s=>s.startsWith("a"));
res4: Int = 1
```

Task 2

- Creating list of tuples , where 1st element of tuple is int and 2nd element is string

```
scala> val stringTuples=List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"beta"));
stringTuples: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,beta))
```

- Print numbers where corresponding string length is 4

```
scala> stringTuples foreach (x=> if(x._2.length == 4) println(x._1));
2
4
5
```

- Find average of numbers, where corresponding string contains either "z" or "m"

```
scala> var sum,count=0; for(i<- 0 to stringTuples.length-1) { if(stringTuples(i)._2.contains("m") || stringTuples(i)._2.contains("z")){sum=sum+stringTuples(i)._1;count=count+1; } };var res=sum/count; println("\n average is "+res);

average is 3
```