

Assignment 12.3

Problem Statement :-

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

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

Solution:-

- **print the numbers where the corresponding string length is 4**

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

scala> println(tuple);
List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))

scala> █
```

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

scala> █
```

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

```
scala> var tup1 = tuple.filter(a => (a._2.count(_ == 'm') != 0 || a._2.count(_ == 'z') != 0))
tup1: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))

scala> tup1.map(_._1).sum/tup1.size
res2: Int = 4

scala> █
```

Submitted By:-

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