Task1

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

- Find count of all strings with length 4.

```
    def main(args:Array[String]){
      val lst=List("alpha","gamma","omega","zeta","beta");
      println(lst.count(x⇒x.length==4));
    }
  }
```

```
2
```

Output- 2

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

```
    def main(args:Array[String]){
      val lst=List("alpha","gamma","omega","zeta","beta");
      val lst_int=lst.map(x⇒x.length);
      println(lst_int);
    }
```

```
List(5, 5, 5, 4, 4)
```

- Find count of all strings which contain alphabet ‘m’.

```
    def main(args:Array[String]){
      val lst=List("alpha","gamma","omega","zeta","beta");
      val lst_int=lst.count(x⇒x.contains("m"));
      println(lst_int);
    }
  }
```

```
2
```

- Find the count of all strings which start with the alphabet ‘a’

```
    def main(args:Array[String]){
      val lst=List("alpha","gamma","omega","zeta","beta");
      val lst_int=lst.count(x⇒x.startsWith("a"));
      println(lst_int);
    }
```

```
1
```

Task 2

Create a list of tuples, where the 1st element of the tuple is an int and the second element is a string.

```
    def main(args:Array[String]){
      val lst_tup=List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"));
      println(lst_tup);
    }
  }
```

```
List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))
```

- For the above list, print the numbers where the corresponding string length is 4.

```
    def main(args:Array[String]) {
      val lst_tup=List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"));
      lst_tup.foreach{case(x,y)⇒ if (y.length==4) println(x)}
```

```
2
4
```

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

```
    def main(args:Array[String]) {
      val lst_tup=List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"));
      var sum=0;
      var cnt=0;
      lst_tup.foreach{case(x,y)⇒ if (y.contains("m")||y.contains("z")) {sum=sum+x;cnt=cnt+1;}  }
      println("Avg :"+(sum/cnt).doubleValue())
```

```
Avg :4.0
```