## **Either**

Either is an alternate to Option with regards to Success or failure. An instance of Either is an instance of either Left or Right. A common use of Either is as an alternative to scala. Option for dealing with possibly missing values. In this usage, None is replaced with a Left which can contain useful information. Right takes the place of Some. Convention dictates that Left is used for **failure** and Right is used for **success**. For example, you could use Either[String, Int] to indicate whether a received input is a String or an Int. Here is an example:

```
object EitherLeftRightExample extends App {
   ^{\star} A method to demonstrate how to declare that a method returns an Either,
   * and code that returns a Left or Right.
  */
  def divideXByY(x: Int, y: Int): Either[String, Int] = {
      if (y == 0) Left("oops, can't divide by 0")
      else Right(x / y)
  }
  // a few different ways to use Either, Left, and Right
  println(divideXByY(1, 0))
  println(divideXByY(1, 1))
  divideXByY(1, 0) match {
     case Left(s) => println("Answer: " + s)
      case Right(i) => println("Answer: " + i)
 }
}
```

We can run the pattern match also as can be seen in above example.

## Exercises:

- Create a function which can either divide a number or send an exception message, return type of a fucntion should be Either[String,Int]
- Create a function which can send the message Not allowed for driving or nothing if Allowed, i.e def isAllowedToVote(age:Int):Either[String,Unit]